



Catalogue



Adhesives / Sealants



Technical
Sprays



Technical
Liquids



Assembly Pastes



Lubricants

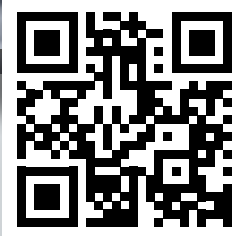


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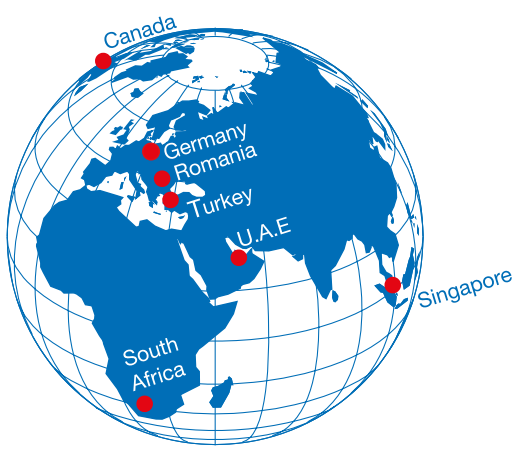


Simply find solutions.

WEICON App Available now!



weicon.com/app



WEICON GmbH & Co. KG
(Headquarters)
Münster - Germany

WEICON Middle East L.L.C.
Dubai - United Arab Emirates

WEICON Kimya Sanayi Tic. Ltd. Şti.
Istanbul - Turkey

WEICON Inc.
Kitchener - Canada

WEICON Romania SRL
Budiu Mic (Targu Mures) - Romania

WEICON SA (Pty) Ltd
Muizenberg (Cape Town) - South Africa

WEICON South East Asia Pte Ltd
Pioneer Point #03-56 - Singapore 627607

www.weicon.com



Hello!

We are pleased that you are interested in WEICON products and solutions. In this catalogue, we are presenting our complete product range.

Your requirements are our daily motivation: The development of highly qualified products and services from a single source – so that you have only one contact person for all kinds of applications.


We gladly take on changing and growing demands. Whether you are in Dubai, Dublin or Düsseldorf.

We at WEICON believe in close connections.

Since 1947, WEICON GmbH & Co. KG has been producing speciality products for the industry in Germany. The range of products includes special adhesives and sealants, technical sprays and high-performance assembly pastes and greases for all areas of industry - from production over repair up to maintenance. Another field of activity is the development, sales and distribution of stripping tools.

The company headquarters are located in Münster, Germany. WEICON has subsidiaries in Dubai, Canada, Turkey, Romania, South Africa and Singapore and is represented by WEICON partners in more than 100 countries all over the world.

Sincerely,



Ralph Weidling





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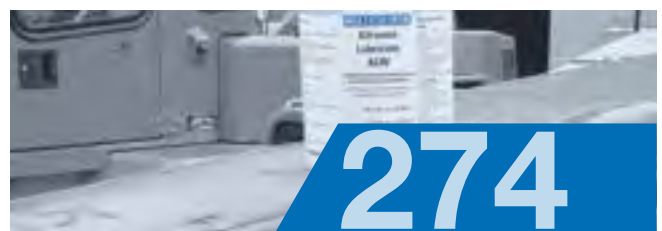


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Note: Any product specifications and recommendations given herein must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.



International product training at WEICON



Presence at trade fairs – worldwide

We are WEICON

As a third generation family-owned business, WEICON continues to stand for quality, service and reliability.

All WEICON products are made to the highest quality standards. These standards are regularly tested, controlled and certified by renowned institutes around the world.

Another important and essential element of WEICON is the continuous training and growth of our staff.

You call it service, we call it our expertise!

- Individual customer solutions: From development to production – everything from a single source
- Intersectoral product range with continuous growth
- Qualified office staff and sales force
- Area-wide distribution network in Germany, Canada, Turkey, Romania, U.A.E. and South Africa
- 24h delivery service – throughout Germany
- Product trainings both in Münster or at customer site
- Adhesion tests and documentation
- Presence at national and international trade fairs
- Active sales promotion, e.g. at in-house exhibitions
- Layout of brochures, sales displays and labels by our own Advertising Department



Company headquarter in Münster



History



1947

- Foundation of P.W. Weidling & Sohn

1950

- Move to Engelstraße, Münster

1957

- Gerd Weidling joins the company
- The company changes to a limited partnership

1958

- First participation in the Mining Exhibition in the German city of Essen

1959

- First participation in the Hanover Exhibition

1960

- Relocation of the company to Schleibrüggenkamp in Münster

1964

- Gerd Weidling takes over the company management

1967

- Introduction of the new product line Stripping Tools

2004

- Start of the cooperation with the German Fraunhofer institute (IFAM)

2002

- Change of name from P.W. Weidling & Sohn to WEICON

2000

- German Federal Award for Duo-Crimp No.300 as an outstanding innovative achievement
- Ralph Weidling takes over the company management

1997

- Start of the cooperation with company Willteco B.V.
- First Off-Shore project: Securing of the transport of an oilrig in Portugal

1993

- New building of the company headquarters at Königsberger Straße 255 in Münster

1987

- Ralph Weidling joins the company
- Introduction of WEICONLOCK® Anaerobic Adhesives

1969

- New building of the company headquarters at An der Kleimannbrücke in Münster

2005

- Foundation of WEICON Middle East LLC in Dubai, U.A.E.
- Innovation Award of the German Industry for WEICON Plastic Metal RFC

2006

- Patent for the WEICONLOCK® Pen-Systems
- Extension of the headquarters at Königsberger Straße in Münster

2008

- Foundation of WEICON Inc. in Kitchener, Canada

2009

- WEICON becomes member of the German Adhesives Association (IVK)

2010

- Enlargement of the company premises by acquisition of a new 15,200 m² lot

2011

- Foundation of WEICON Kimya Sanayi in Istanbul, Turkey
- Set-up of the WEICON Online-Shop

2015

- WEICON App
- Foundation of WEICON South East Asia in Singapore
- 1st WEICON International Meeting in Dubai

2014

- WEICON Adhesive Finder WEICON Catalogue

2013

- Foundation of WEICON SA, Muizenberg, South Africa

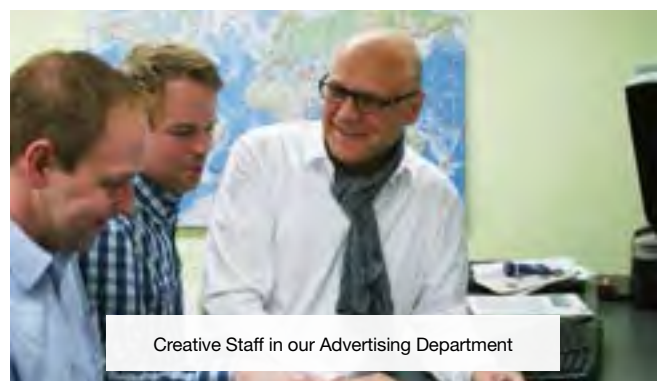
2012

- Foundation of WEICON Romania in Targu Mures, Romania
- WEICON participates in 45 exhibitions all over the world

We are WEICON

Competence through responsibility and commitment!

- Recognition of the German Chamber of Commerce (IHK) as company training centre
- Member of the following associations and committees:
 - Bundesverband mittelständische Wirtschaft (German Association of Small and Medium-sized Businesses)
 - Wirtschaftsförderung Münster (Promotion of Trade and Industry Münster)
 - Industrieverband Klebstoffe e.V. (IVK) (German Adhesives Association)
 - Außenwirtschaftsausschuss der IHK (Foreign Trade Committee of the German Chamber of Commerce)
 - Verband der chemischen Industrie (German Chemical Industry Association) (VCI)
- Certified training of the staff
- Social and sports sponsorship





WEICON Middle East

On 1st March 2005, our first branch office, WEICON Middle East LLC, was founded in Dubai in the United Arab Emirates.

Meanwhile, more than 400 customers are supplied and supported by the WEICON Middle East team. Technical know-how, flexibility and extremely short delivery times are just a few of the many strengths of our team in the United Arab Emirates. Even at summer temperatures of up to +45°C, over 600,000 different WEICON products were sold and shipped to our customers in the region in 2014.

The following countries are currently supported by the WEICON team in Dubai: United Arab Emirates, Saudi Arabia, Qatar, Bahrain, Kuwait, Iran, Oman, India and will be expanded by eleven countries in East Africa.

The branch office has an area of approx. 650 sqm. Up to 120 pallets with WEICON products can be stored in Dubai; the shelf area is equivalent to approx. 200 linear metres. This enables us to guarantee that our customers are supplied locally quickly and reliably with our products.

Thorsten Lutz and his team are responsible for the distribution of WEICON products and the technical support of our customers in the entire Gulf region. The team at WEICON Middle East consists of thirteen people, of which six employees work as field sales representatives.

WEICON Middle East L.L.C.

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United Arab Emirates
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info@weicon.ae



Dubai

United Arab
Emirates



We are WEICON

WEICON Inc.



Since 1st September 2008, WEICON is represented in North America by WEICON Inc. in Kitchener, Ontario, Canada.

We supply customers in the most important branches of industry of the Canadian economy, e.g. production and manufacturing, mining and the oil and natural gas industry, with our products.

WEICON Inc. has office and storage space of approximately 320 sqm. More than 30,000 WEICON articles intended for our customers in North America are stored here at 50 pallet stations and on additional shelf space.



Stephan Wismann, Vice President of WEICON Inc., and his team are responsible for the distribution of our products and for supporting our customers. All sales employees, who provide customers with product recommendations, are experts in the field of adhesive technology and have successfully completed special training courses.

Our Team supports approximately 450 customers in the U.S. and Canada. We deliver our products to even the most remote corners of Canada and the United States within just one week.



WEICON Inc.

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info@weicon.ca





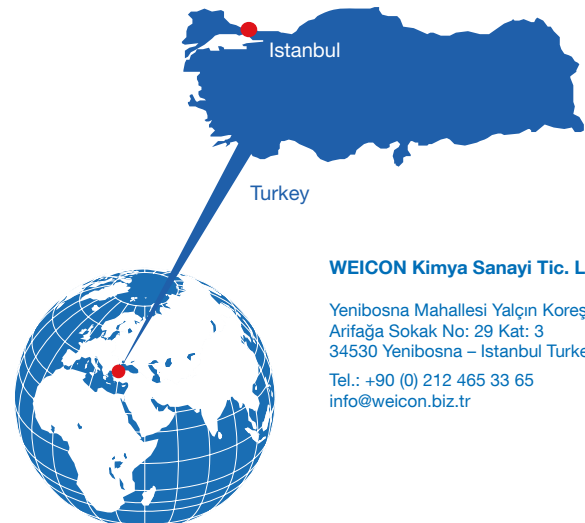
WEICON Türkiye

Since April 2011, WEICON has been operating a branch office in Istanbul, Turkey. WEICON Kimya Sanayi Tic. Ltd. Şti. provides support for our customers on the Bosphorus.

With its millions of inhabitants between Europe and Asia, Istanbul is the ideal location for our branch office in Turkey. Our customers and partners in neighbouring countries are supplied with WEICON products from there as well.

The branch office has a large storage area. This assures that our products are available and enables us to guarantee that customers always receive our products quickly.

The team of the branch office under the leadership of Tolga Aksöz is responsible for providing our customers in the region with service and support.



WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi
Arifağa Sokak No: 29 Kat: 3
34530 Yenibosna – Istanbul Turkey

Tel.: +90 (0) 212 465 33 65
info@weicon.biz.tr

About us

We are WEICON

WEICON Romania



Our branch office in Romania was founded in March 2012. In 2013, it has been relocated to a new building.

The registered office of WEICON Romania has been located near Targu Mures in the heart of Romania since November 2013. Our employees in Targu Mures currently support numerous customers throughout Romania.

The warehouse stocks the whole Weicon product range, which ensures that customers are supplied quickly and flexibly with our products. The branch office is headed by Alexandru Vlaicu, who provides support for our customers in Romania together with his team.



WEICON Romania SRL

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547176 Budiu Mic (Targu Mures) · Romania
Tel. +40 (0) 3 65 730 763
office@weicon.com





WEICON SA

WEICON has been represented on the African continent by WEICON SA Pty Ltd. in Muizenberg near Cape Town since November 2013.

Above all, flexibility and extremely short delivery times characterise the strengths of our branch office compared to other suppliers on the market. There are plans to support additional countries from South Africa in future, e.g. Namibia, Botswana, Zimbabwe and Mozambique.

The branch office has an area of approx. 220 sqm. Our warehouse in Muizenberg provides space for up to 45 pallets with WEICON products. This enables us to guarantee that our customers are supplied locally, quickly and reliably with our products.

Managing Director Taswell Welcome has a team of five employees, two of whom are field representatives for the area of Johannesburg and Durban. Our team in Muizenberg sees to the distribution of WEICON products and support for our customer



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South Africa
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We are WEICON

WEICON South East Asia

WEICON South East Asia Pte. Ltd. is the name of our new location in Singapore.

Singapore, the city state which is only 718 square kilometres in size, i.e. approximately the area of Hamburg, represents the focal point of Southeast Asia. An increasing number of companies have recognised its importance, and enjoy the highly industrialised and successful free market economy there.

By opening the new subsidiary, WEICON is now also settling in Singapore.

„Southeast Asia is a highly interesting market. The goal is to serve all countries in the region medium to long-term“, explains WEICON Managing Director Ralph Weidling. „The twins Gang and Qiang Kho will take on the management of our new subsidiary. We have already worked closely with them for some years now, and are now looking forward to a successful future in Southeast Asia“.



Due to the outstanding geographical location at the southern end of the Straits of Malacca, one of the most heavily-travelled straits in the world, the country is optimally connected with both Europe and Asia. Large, expansively laid out harbours and a modern infrastructure ensure good connections to the global market.

A strong economic growth and political consistency also make the location a favourable one. Some of the most important economic sectors in the country are the oil-processing industry, the electrical industry, machines and equipment, ship's repairs and, increasingly, biotechnology and pharmacy.



CT-CARD SP. Z O.O.

Founded in the capital city, Warsaw, CT-CARD has been the supplier of professional solutions for industry in Poland for more than 23 years now.

The close co-operation with WEICON, which shows in joint events and trainings of the employees, regularly held at WEICON headquarters as well as in Poland, made the young team successful in supplying industrial and individual customers in Poland with WEICON products and services. Individually supported projects, recognized quality and technical know-how, based on an exclusive partnership, are proven with constant dynamic growth of sales in the last decade.

Farysa 15 B, 01-971 Warszawa
phone: (+48) 22 835 05 05
www.ct-card.pl.cz



ALTIS Slovakia s.r.o.

Since 1997, we have been working together with Managing Director Milan Špiriak and his team in Slovakia. ALTIS has its headquarters in Martin, in the middle of Slovakia. From there, all important areas of the economy, for example the automotive and electronics industry, are supplied with WEICON products.

Záturčianska 66, 036 01 Martin
phone: +421-(0)43-4220 258
www.weicon-sk.sk



CJSC UNIT MARK PRO

The collaboration with Unit Mark Pro in Russia began in 2004 with the stripping tools. During the global economic crisis in the year 2009, the company broke new grounds, extending the partnership with the sale of our chemotechnical products, with a high degree of success. WEICON products are available all over Russia.

Unit Mark Pro was founded in 1998 by Alexander Naishuller, has its headquarters in Moscow and has a network of eight subsidiaries across the whole of Russia.

34, build.10, Marksistskaya ul., 109147 Moscow
phone: 007 495 748 0907
www.umpgroup.ru



About us

International WEICON partner

Deuchman - Beijing Tech., Co, Ltd.

Since 2013, we have been working in China with our partner Deuchman. Managing Director Jason Wang and his team support the state with the highest population in the world from the capital city of Beijing. Deuchman employs field service staff, and also works together with a network of technical traders. This is how they ensure that large parts of the fourth-largest state in the world are covered.

Room 2032, Floor 20, Jingxin Building, Dongsanhuan North Road No.2A,
Chaoyang District, Beijing, China
phone: 0086 - 10 - 84493133
www.deximan.com



Qatari Industrial Equipment W.L.L.

Our close business relationships with Qatari Industrial Equipment, based in Doha in the Emirate of Qatar, began with an initial meeting at the oil and gas trade fair Offshore Europe in Scottish Aberdeen in 1997.

Qatari Industrial Equipment is part of the Al Sulaiman Group of Companies, and was founded in 1995 in Qatar. The core business is the supply of the oil and gas industries, petrochemicals, the energy industry and the construction industry.

Street 14 Gate No 37, Street 14, Katara
phone: +974 4460 4015
www.qatari-industrial.com



WEICON Spain

Since the start of 2013, we have an employee in Madrid, the capital of Spain. From there, Alejandro González Cámara is responsible for the supervision of the existing customers and for winning new customers on the Iberian peninsula. Significant economic branches within the state are the foodstuffs, automotive and mechanical engineering industry.

These areas are consistently expanding and indicate good growth figures. We make use of this development through our employees in Spain, and ensure that we are present in one of the most important European industrial nations.

C/ Wad Ras 11 - 28039 Madrid
phone +34 (0) 914 7997 34
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Plastic Metal

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2-Component Adhesives and Sealants





Plastic Metal

WEICON Plastic Metal is ideal for providing fast, cost effective and durable repairs and coatings to many different types of material. WEICON Plastic Metal is also suitable for tool and mould making.

The range consists of 19 different types to cover the various application requirements needed for industry. The system is complemented by a range of optional accessory products.

Composition

WEICON Plastic Metals are two-component epoxy resin systems. All types are supplied in a retail package which contains the resin and hardener components in the correct mixing ratios. Depending on type, the resin component is filled with either steel or aluminium powder or in some cases, a mineral filler (except Casting Resin MS 1000).

The different hardeners determine the viscosity and curing behaviour of each product type.

Storage

Store WEICON Plastic Metal dry at room temperature. Unopened packages can be stored at temperatures from +18°C to +28°C for at least 24 months after the date of delivery (Epoxy resin putty - max. 36 months). The contents of opened packaging must be used up within 6 months.

Characteristics

After mixing the two components, WEICON Plastic Metal hardens at room temperature to a firm, metal-like material which immediately adheres to almost every kind of surface.

Time of curing depends on the type. Unlike polyester resin, the material does not shrink while curing. The cured material may be machined, e.g.:

- Drilled
- Milled
- Ground
- Filled

WEICON offers a wide range of putty, liquid or brushable types with extremely high temperature and abrasion resistance.

All types show an excellent resistance to aggressive media.



Epoxy Resin Systems

Plastic Metal



Applications

Many different materials may be reliably and durably bonded to themselves and among each other, e.g.:

- Iron, steel, hard metal, bronze
- Aluminium, brass and copper
- Glass and ceramics, concrete and wood
- Many rigid plastics (except PTFE, polyethylene and polypropylene)

For workshops and maintenance departments in all industries, WEICON Plastic Metal is the ideal product for:

- Repairs on aluminium and light alloy
- Reconditioning and repairing castings, pipes and tanks
- Filling blowholes and microporosities
- Working over shafts, sliding bearings, pumps and housings
- Welding without preheating (wherever welding is problematic or impossible)



Spiral stirrer stainless steel
10953010

Processing aid for WEICON Plastic Metal

In industrial design and manufacturing, WEICON Plastic Metal is used for making moulds and models, in particular:

- As an aid for making moulds for rubber and injection moulded parts
- Making dies
- Templates and models for pre-production testing
- Lining of cutting tool guides
- Making fixing devices.

WEICON Plastic Metal is ideal for maintenance works and will give durable repairs without the need for expensive replacement parts.







WEICON A

Pasty, steel-filled, certified by Germanischer Lloyd

WEICON A is particularly suited for repair work such as the elimination of corrosion damage and pitting, repair of cracks and production of models.

The product can be used in machine construction, tool construction, model and mould making, the maritime industry and in many other applications.

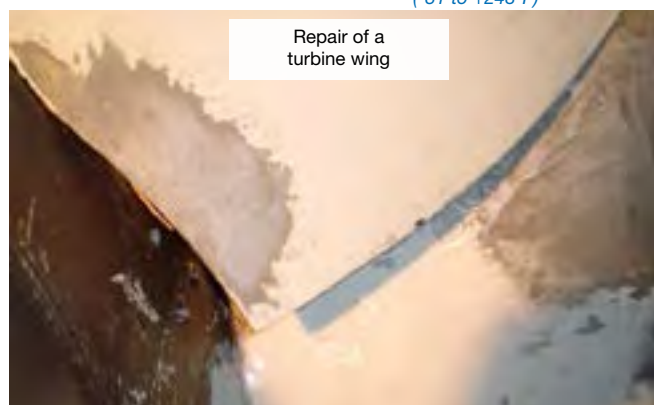
0,5 kg 
10000005

2,0 kg 
10000020



Technical Data

Basis	Epoxy resin steel-filled
Specific Properties	pasty
Mixing ratio by weight % (Resin/Hardener)	100:10
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	2,9 g/cm ³
Viscosity of the mixture	1.000.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	80 MPa (11.600 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	21 MPa (3.000 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	34 MPa (4.900 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	3.500 - 5.000 MPa (510 - 730 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	90
Shrinkage	0,015%
Thermoforming resistance	+65°C (+149°F)
Colour	dark-grey
Temperature resistance	-35 to +120°C (-31 to +248°F)





WEICON B

Viscous, steel-filled

WEICON B is particularly suited for detailed reproductions in model and mould making, for the production of tools, templates, gauges and fixtures, for filling in blowholes and microporosities in castings and for general repair work where a casting compound is advantageous.

WEICON B can be used in machine construction, tool construction, model and mould making, and in many other applications.

0,5 kg 
10050005

2,0 kg 
10050020

Technical Data

Basis	Epoxy resin steel-filled
Specific Properties	viscous
Mixing ratio by weight % (Resin/Hardener)	100:7
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	2,75 g/cm ³
Viscosity of the mixture	200.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	110 MPa (15.950 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	21 MPa (3.000 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	52 MPa (7.500 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	3.500 - 5.000 MPa (510 - 730 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	90
Shrinkage	0,03%
Thermoforming resistance	+65°C (+149°F)
Colour	dark-grey
Temperature resistance	-35 to +120°C (-31 to +248°F)

Epoxy Resin Systems

Plastic Metal

WEICON C

Liquid, aluminium-filled,
up to +220°C (+428°F) high temperature resistant

The product is high temperature resistant after pre-curing at room temperature and post-curing (tempering) at +120°C (+248°F).

WEICON C is particularly suited for pouring out moulds and for making fixing devices and tools. WEICON C can be used in tool and mould making and in many other industrial applications.

0,5 kg ✓
10100005

2,0 kg ✓
10100020

Technical Data

Basis	Epoxy resin aluminium-filled
Specific Properties	liquid, high temp. resistant
Mixing ratio by weight % (Resin/Hardener)	100:8
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	1,62 g/cm ³
Viscosity of the mixture	25.000 mPa·s
Max. layer thickness per application	60 mm
Cure time mechanical loads	24 h
Final hardness	48 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	140 MPa (20.300 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	25 MPa (3.600 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	77 MPa (11.200 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	5.800 - 6.000 MPa (840 - 870 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	90
Shrinkage	0,01%
Thermoforming resistance	+130°C (+266°F)
Colour	grey
Temperature resistance	-35 to +220°C (-31 to +428°F)

WEICON BR

Pasty, bronze-filled

WEICON BR is particularly suited for filling in blowholes and for repairing and rebuilding bronze equipment parts and castings.

WEICON BR can be used in tool construction, model and mould making, and in many other industrial applications.

0,5 kg ✓
10420005

2,0 kg ✓
10420020

Technical Data

Basis	Epoxy resin bronze-filled
Specific Properties	pasty
Mixing ratio by weight % (Resin/Hardener)	100:100
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	1,80 g/cm ³
Viscosity of the mixture	650.000 mPa·s
Max. layer thickness per application	12 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	95 MPa (13.800 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	29 MPa (4.200 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	35 MPa (5.000 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	2.500 - 3.000 MPa (360 - 440 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	75
Shrinkage	0,02%
Thermoforming resistance	+50°C (+122°F)
Colour	bronze
Temperature resistance	-35 to +120°C (-31 to +248°F)



Repair of a
ship propeller



WEICON F

**Pasty, aluminium-filled,
non-corrosive and anti-magnetic**

WEICON F is particularly suited for applications on components made from aluminium, aluminium alloys, magnesium and other light metals. WEICON F can be used for inexpensive repairs of all types, for filling in blowholes on light metal castings and for the reconstruction of components.

WEICON F can be used in tool construction, model and mould making, and in many other industrial applications.

0,5 kg ✓
10150005

2,0 kg ✓
10150020



Reconditioning of an aluminium housing

Technical Data

Basis	Epoxy resin aluminium-filled
Specific Properties	pasty
Mixing ratio by weight % (Resin/Hardener)	100:20
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	1,6 g/cm ³
Viscosity of the mixture	880.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	61 MPa (8.800 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	20 MPa (2.900 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	37 MPa (5.400 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	1.500 - 2.000 MPa (220 - 290 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	84
Shrinkage	0,02%
Thermoforming resistance	+60°C (+140°F)
Colour	aluminium
Temperature resistance	-35 to +120°C (-31 to +248°F)



Epoxy Resin Systems

Plastic Metal

WEICON F2

Viscous, aluminium-filled

WEICON F2 is suited for the casting of models, moulds and templates, for the repair of porous and damaged castings, for the production of prototypes and holding devices, and for pouring out swages to test precision.

WEICON F2 can be used in tool construction, model and mould making, and in many other industrial applications.

0,5 kg ✓
10200005

2,0 kg ✓
10200020

Technical Data

Basis	Epoxy resin aluminium-filled
Specific Properties	viscous
Mixing ratio by weight % (Resin/Hardener)	100:14
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	1,45 g/cm ³
Viscosity of the mixture	200.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	43 MPa (6.200 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	14 MPa (2.000 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	26 MPa (3.800 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	1.500 - 2.000 MPa (220 - 290 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	79
Shrinkage	0,025%
Thermoforming resistance	+55°C (+131°F)
Colour	aluminium
Temperature resistance	-35 to +120°C (-31 to +248°F)

WEICON HB 300

Pasty, steel-filled, high temperature resistant

Weicon Plastic Metal type HB 300 is pasty, steel-filled and high temperature resistant up to +200°C (+392°F) (briefly up to +280°C/+536°F). It is processed with a mixing ratio of 1:1.

WEICON HB 300 is also suitable for applications on vertical surfaces and can be used for the repair and bonding of cast and metal parts, for filling in blow holes, for repairing damage to containers, carriages and machine parts and for sealing pumps and pipes.

WEICON HB 300 can be used in machine and system construction, in apparatus engineering, and in many other industrial applications.

1,0 kg ✓
10450010

Technical Data


Basis	Epoxy resin steel-filled
Specific Properties	pasty, high temperature resistant
Mixing ratio by weight % (Resin/Hardener)	100:100
Pot-life +20°C (+68°F) (200 g preparation)	30 min.
Density of the mixture	2,34 g/cm ³
Viscosity of the mixture	1.700.000 mPa·s
Max. layer thickness per application	20 mm
Cure time mechanical loads	12 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	100 MPa (14.500 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	27 MPa (3.900 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	42 MPa (6.000 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	9.500 - 10.000 MPa (1.380 - 1.450 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	85
Shrinkage	0,015%
Thermoforming resistance	+120°C (+248°F)
Colour	dark-grey
Temperature resistance	-35 to +200°C (-31 to +392°F), briefly to +280°C (+536°F)


WEICON Ceramic BL

Liquid, mineral-filled, extremely wear resistant
high temperature resistant from -35°C up to +180°C

Weicon Ceramic BL is liquid, brushable, filled with silicon carbide and zirconium silicate, temperature-resistant up to +180°C and resistant to chemicals. It offers extreme wear protection and high abrasion resistance.

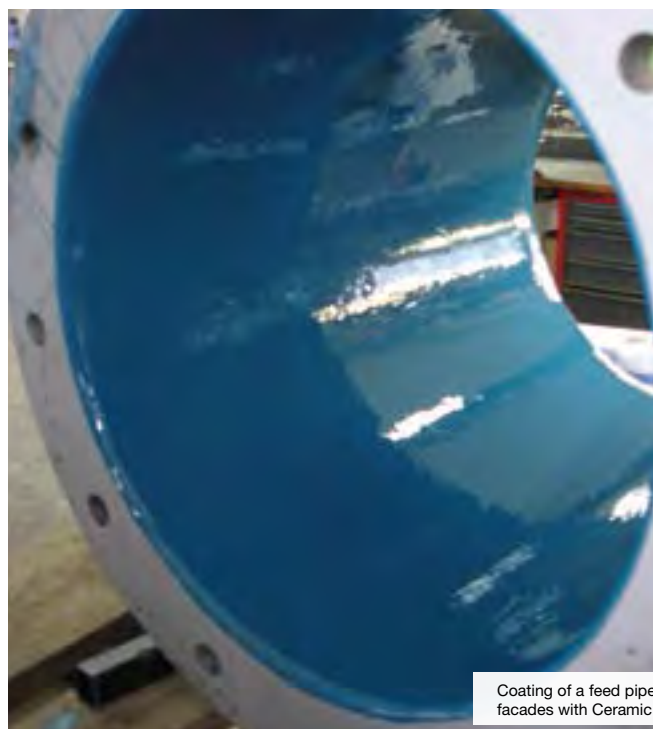
WEICON Ceramic BL is particularly suited for the lining of heavily stressed pump housings, as wear protection for slide bearings, slides, funnels and pipes and for the repair of castings, valves and blower fans. The product can be used in machine and system construction, in apparatus engineering, and in many other industrial applications.

0,5 kg 
10400005

2,0 kg 
10400020

Technical Data

Basis	Epoxy resin mineral-filled
Specific Properties	liquid, extremely wear resistant
Mixing ratio by weight % (Resin/Hardener)	100:15
Pot-life +20°C (+68°F) (200 g preparation)	40 min.
Density of the mixture	1,8 g/cm ³
Viscosity of the mixture	6.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	85 MPa (12.300 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	22 MPa (3.200 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	95 MPa (13.800 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	7.000 - 8.000 MPa (1.020 - 1.160 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	83
Shrinkage	0,02%
Thermoforming resistance	+80°C (+176°F)
Colour	blue
Temperature resistance	-35 to +180°C (-31 to +356°F)



Coating of a feed pipe for the manufacture of ceramic facades with Ceramic BL

Epoxy Resin Systems

Plastic Metal

WEICON and WAGNER –
a good combination

The Wagner Group is one of the leading manufacturers worldwide of devices and systems for surface coating with powder and wet paints, paints and other liquid materials. The family company based on Lake Constance produces these spray systems both for the trade and for the industry.

When coating large areas, the conventional processing forms involving spatulas, brushes or rollers reach their limits. The use of the Wagner System SuperFinish 23 Plus Temp Spray can achieve excellent results. WEICON Plastic Metal BL can be easily and quickly processed over large areas. The achieved results are reproducible and can also be integrated into serial production or large-area repair work.

The advantages of processing WEICON BL with the Wagner SuperFinish 23 Plus (AL):

- Especially suitable for large-area coatings
- Ideal for industrial serial production
- Highly reproducible layer thickness
- Clean work even in places which are hard to reach
- Accurate and controlled coating
- High coverage in only one application
- Substantially faster processing than using a brush and roller
- Simple handling



Device data for Wagner SuperFinish 23 Plus

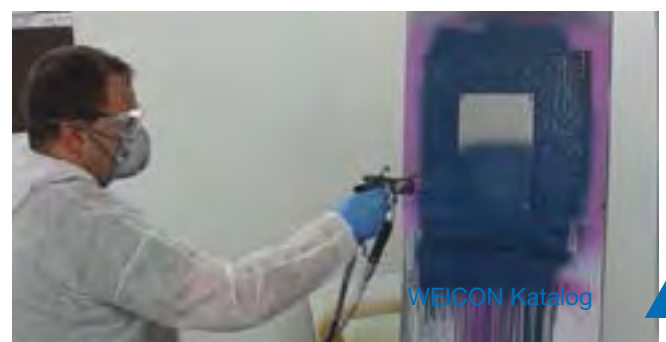
Motor power	1,3 kw
Max. pressure	250 bar
Weight on frame	26 kg
Weight on carriage	29 kg
Max. output	2,6 l/min
Max. nozzle size	0,023"

Procedure

Spraying temperature	60°C
Spray pressure	180-200 bar
Gun	AirCoat 4600
Air pressure	4-5 bar
Suction system	top tank
Nozzle type	flat jet
Nozzle size	11/40
Gun filter	yellow
Hose length	10 m
Adjustment pressure	250 bar
Layer thickness	data to be determined
Material throughput	within 40 mins. 4-6 kg



Filling of storage tank Airless device Wagner SF 23 Plus





WEICON Ceramic W

Pasty, mineral-filled, extremely wear resistant

WEICON Ceramic W is pasty, mineral-filled, temperature-resistant up to +200°C (+392°F) (briefly up to +260°C/+500°F) and resistant to chemicals. It offers high wear protection and abrasion resistance.

WEICON Ceramic W has a non-sag property and can be spread with a spatula. It can be applied on vertical surfaces and even overhead.

WEICON Ceramic W is suited for the bonding or lining of aluminium oxide stones in mill construction, for the lining of heavily stressed pump housings, as wear protection for slide bearings, slides and pipes and wherever darker products are not desired for optical reasons.

WEICON Ceramic W can be used in machine and system construction, mill construction, apparatus engineering, and in many other industrial applications.

0,5 kg ✓
10460005

2,0 kg ✓
10460020

Technical Data

Basis	Epoxy resin mineral-filled
Specific Properties	pasty, extremely wear resistant
Mixing ratio by weight % (Resin/Hardener)	100:33
Pot-life +20°C (+68°F) (200 g preparation)	120 min.
Density of the mixture	1,59 g/cm ³
Viscosity of the mixture	600.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	24 h
Final hardness	48 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	140 MPa (20.300 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	30 MPa (4.350 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	90 MPa (13.000 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	4.500 - 5.000 MPa (650 - 730 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	85
Shrinkage	0,02%
Thermoforming resistance	+150°C (+302°F)
Colour	white
Temperature resistance	-35 to +200°C (-31 to +392°F), briefly to +260°C (+500°F)



Bonding of aluminium oxyd-stones

Epoxy Resin Systems


Plastic Metal


WEICON SF

Pasty, steel-filled, fast-curing, certified by Germanischer Lloyd

WEICON SF is particularly suited for quick repairs and the reconditioning of leaky pipelines, housings and gears, for anchorages, and for the production of fixing devices.

WEICON SF can be used in machine construction, tool construction, model and mould making, the maritime industry and in many other applications.

0,5 kg 
10250005

2,0 kg 
10250020



Technical Data


Basis	Epoxy resin steel-filled
Specific Properties	pasty, fast-curing
Mixing ratio by weight % (Resin/Hardener)	100:33
Pot-life +20°C (+68°F) (200 g preparation)	5 min.
Density of the mixture	1,7 g/cm ³
Viscosity of the mixture	800.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	3 h
Final hardness	6 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	52 MPa (7.550 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	15 MPa (2.180 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	40 MPa (5.800 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	2.500 - 4.000 MPa (360 - 580 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	82
Shrinkage	0,06%
Thermoforming resistance	+40°C (+104°F)
Colour	dark-grey
Temperature resistance	-35 to +90°C (-31 to +194°F)


WEICON ST

Pasty, metal-filled, non-corrosive

WEICON ST is suitable for versatile repairs and maintenance jobs performed on stainless steel machine parts and work-pieces such as tanks, pipelines, containers, funnels and flanges.

WEICON ST can be used in the chemicals industry, in the entire marine and inland water navigation sector, in wastewater systems, in the paper industry and in many other applications.

0,5 kg 
10410005

2,0 kg 
10410020

Technical Data

Basis	Epoxy resin metal-filled
Specific Properties	pasty, non corrosive
Mixing ratio by weight % (Resin/Hardener)	100:50
Pot-life +20°C (+68°F) (200 g preparation)	60 min.
Density of the mixture	1,64 g/cm ³
Viscosity of the mixture	550.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	80 MPa (11.600 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	27 MPa (3.900 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	38 MPa (5.500 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	2.000 - 2.500 MPa (290 - 360 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	80
Shrinkage	0,02%
Thermoforming resistance	+50°C (+122°F)
Colour	grey
Temperature resistance	-35 to +120°C (-31 to +248°F)



Emergency repair of a water pipe





WEICON TI

Pasty, titanium-filled, temperature-resistant up to +200°C (+392°F) (briefly up to +260°C/+500°F)

WEICON TI is particularly suited for repair work when high pressure resistance and resistance to chemicals are required, such as for pumps, valves, wearing plates, ball bearing seats, shafts and propellers and also for the lining of pump housings and slide bearings.

WEICON TI can be used in machine and system construction, in apparatus engineering, and in many other industrial applications.

0,5 kg 
10430005

2,0 kg 
10430020

Technical Data


Basis	Epoxy resin titanium-filled
Specific Properties	pasty, wear resistant
Mixing ratio by weight % (Resin/Hardener)	100:33
Pot-life +20°C (+68°F) (200 g preparation)	120 min.
Density of the mixture	1,61 g/cm ³
Viscosity of the mixture	550.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	24 h
Final hardness	48 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	105 MPa (15.200 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	35 MPa (5.100 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	100 MPa (14.500 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	4.500 - 5.000 MPa (650 - 730 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	80
Shrinkage	0,02%
Thermoforming resistance	+150°C (+302°F)
Colour	grey
Temperature resistance	-35 to +200°C (-31 to +392°F) briefly to +260°C (+500°F)

Casting Resin MS 1000

Liquid, unfilled, low viscosity pure epoxy resin

WEICON MS 1000 Casting Resin is suitable for the most diverse applications, such as for casting electrical components, and can be blended by various fillers (in form of powder, fibres and fabric), e.g. for the production of highly filled backfilling compounds.

WEICON MS 1000 Casting Resin can be used in the electrical industry, in machine construction and in many other applications.

1,0 kg 
10520010

Technical Data

Basis	Epoxy resin unfilled
Specific Properties	liquid
Mixing ratio by weight % (Resin/Hardener)	100:20
Pot-life +20°C (+68°F) (200 g preparation)	20 min.
Density of the mixture	1,1 g/cm ³
Viscosity of the mixture	1.300 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	24 h
Final hardness	36 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	60 MPa (8.700 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	25 MPa (3.600 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	285 MPa (41.325 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	17.000 - 18.000 MPa (2.470 - 2.610 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	65
Shrinkage	0,2%
Thermoforming resistance	+50°C (+122°F)
Colour	transparent, slight inherent colour
Temperature resistance	-35 to +120°C (-31 to +248°F)



Epoxy Resin Systems

Plastic Metal

WEICON UW

Pasty, mineral-filled, hardens under water as well as on damp and wet surfaces

WEICON UW is particularly suitable for repairs and reconditioning, for example on pipes, pumps, tanks and containers.

WEICON UW can be used in the entire marine and inland water navigation sector and in wastewater systems. It can be used in all applications where moisture and wetness lead to bonding difficulties.

0,5 kg ✓
10440005

2,0 kg ✓
10440020



Technical Data

Basis	Epoxy resin mineral-filled
Specific Properties	pasty, cures even under water
Mixing ratio by weight % (Resin/Hardener)	100:100
Pot-life +20°C (+68°F) (200 g preparation)	20 min.
Density of the mixture	1,35 g/cm ³
Viscosity of the mixture	670.000 mPa·s
Max. layer thickness per application	12 mm
Cure time mechanical loads	4 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	60 MPa (8.700 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	30 MPa (4.350 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	38 MPa (5.500 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	2.000 - 2.500 MPa (290 - 360 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	70
Shrinkage	0,02%
Thermoforming resistance	+50°C
Colour	white
Temperature resistance	-35 to +120°C (-31 to +248°F)



Repairs on flood-gates

WEICON WP

Pasty, ceramic-filled, extreme high resistance against abrasion and wear, high strength, residual elasticity and impact resistant

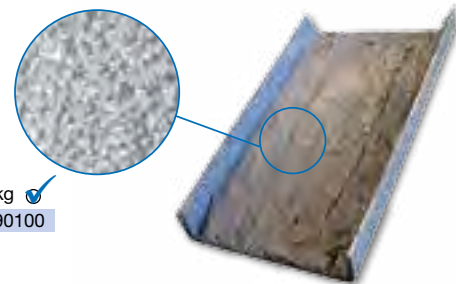
Weicon WP is suitable for the protection of strongly used surfaces. The coating with Plastic-Metal WP provides a high resistance against abrasion and wear and is very resistant against chemicals.

It avoids metal loss and replaces previously applied wear-resistant alloys, ceramic tiles and rubber linings as well as welded metal coatings.

Weicon WP can be used for the regeneration of worn-out metal surfaces or as a wear-resistant coating. A particularly high level of protection is achieved, when the wear is caused done by particles impacting sideways.

2,0 kg ✓
10490020

10,0 kg ✓
10490100



Technical Data

Basis	Epoxy resin ceramic-filled
Specific Properties	pasty, wear resistant, non-sag
Mixing ratio by weight % (Resin/Hardener)	100:100
Pot-life +20°C (+68°F) (200 g preparation)	approx. 30 Min.
Density of the mixture	2,5 g/cm ³
Viscosity of the mixture	900.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	96 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	51 MPa (7.400 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	22 MPa (3.200 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	35 MPa (5.100 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	2.500 - 3.000 MPa (360 - 440 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	80
Shrinkage	0,02%
Thermoforming resistance	+50°C (+122°F)
Colour	grey
Temperature resistance	-35 to +120°C (-31 to +248°F)

Epoxy Resin Systems

Plastic Metal

WEICON WR

Liquid, steel-filled, wear resistant

WEICON WR is suitable for areas where metal parts are subjected to strong wear due to friction, as repairs and recasting of shafts, for pouring out bearings and cutting and punching tools, for the production of casting and profile milling models as well as drawing moulds, for underpouring machines and foundations and as a wear-resistant underlayer before the final coating with WEICON Ceramic BL.

WEICON WR can be used in machine construction, tool construction, model and mould making, and in many other industrial applications.

0,5 kg ✓
10300005

2,0 kg ✓
10300020



Technical Data

Basis	Epoxy resin steel-filled
Specific Properties	liquid, wear resistant
Mixing ratio by weight % (Resin/Hardener)	100:15
Pot-life +20°C (+68°F) (200 g preparation)	45 min.
Density of the mixture	2,3 g/cm ³
Viscosity of the mixture	20.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	110 MPa (15.950 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	33 MPa (4.800 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	80 MPa (11.600 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	5.000 - 5.500 MPa (730 - 800 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	90
Shrinkage	0,02%
Thermoforming resistance	+65°C (+149°F)
Colour	black
Temperature resistance	-35 to +120°C (-31 to +248°F)

WEICON WR2

Pasty, mineral-filled, wear-resistant, highly abrasion-resistant

WEICON WR2 is particularly suitable for areas where the processing of casting compounds is not possible such as for the repair of conveyors, guides and sliding ways. It can also be used to prevent wear on metal surfaces exposed to high abrasion and erosion and can serve as a wear-resistant underlayer before the final coating with WEICON Ceramic BL.

WEICON WR2 can be used in machine and system construction, in apparatus engineering and in many other industrial applications.

0,5 kg ✓
10350005

2,0 kg ✓
10350020

Technical Data

Basis	Epoxy resin mineral-filled
Specific Properties	pasty, wear resistant
Mixing ratio by weight % (Resin/Hardener)	100:25
Pot-life +20°C (+68°F) (200 g preparation)	45 min.
Density of the mixture	1,67 g/cm ³
Viscosity of the mixture	560.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	24 h
Mean compressive strength (+25°C/+77°F) DIN 53281-83	71 MPa (10.300 psi)
Mean tensile strength (+25°C/+77°F) DIN 53281-83	29 MPa (4.200 psi)
Mean flex. strength (+25°C/+77°F) DIN 53281-83	39 MPa (5.650 psi)
Strength E-Modul (+25°C/+77°F) DIN 53281-83	2.500 - 3.000 MPa (360 - 440 ksi)
Shore D (+25°C/+77°F) DIN 53281-83	82
Shrinkage	0,025%
Thermoforming resistance	+65°C (+149°F)
Colour	dark-grey
Temperature resistance	-35 to +120°C (-31 to +248°F)



Plastic Metal applications



Reconditioning of a bearing seat for a cement combustion chamber / cement kiln, weight ok. 500 t with HB 300



Repair of a hairline crack on a pump housing with WEICON Plastic Metal WR 2.



Dedusting filter cartridges for air filtration at workplaces.



Roller in a paper factory. Repair of unevenness and voids created through wear using WEICON C.



Reconditioning of a crushing roller in a paper factory with Ceramic BL.



Repair on the guide for the „Skytrain“ at Düsseldorf Airport with WEICON WR. Bearing seats may be knocked out due to vibrations / shocks which have an effect on the bearings.



Chain pins on a bucket conveyor



Severe damage to turbines made out of high-alloyed steel due to cavitation damage and pitting.

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Epoxy Resin Systems

Epoxy Resin Putty

Epoxy Resin Putty

The kneadable universal repair compound

WEICON Epoxy Resin Putty is pasty (kneadable), mineral-filled, and temperature-resistant up to +200°C (+392°F). It is processed with a mixing ratio of 1:1 and is machinable and overpaintable after curing.

WEICON Epoxy Resin Putty adheres to metal, wood, glass, rubber, ceramics, concrete and most plastics. It is resistant to petrol, oil, ester, saltwater and most acids and lyes.



0,1 kg ✓
10500100

0,4 kg ✓
10500400

0,8 kg ✓
10500800

Technical Data

Basis	Epoxy resin mineral-filled
Specific properties	putty, high temp. resistant
Pot-life at +20°C (+68°F) (25 g material)	30 min.
Density of the mixture	2,0 g/cm ³
Processing temperature	+10 to +35°C (+50 to +95°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour after curing	green
Gap covering power to max.	15 mm
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	2 h
Final strength (100% at +20°C/+68°F) after	3 h
Pressure (DIN 53281-83)	80 N/mm ² (11.600 psi)
Shore hardness D	87
Tensile shear strength ac. to DIN 53283	30 N/mm ² (4.400 psi)
Temperature resistance	-35 to +200°C (-31 to +392°F)



WEICON Epoxy Resin Putty is suited for the sealing of pipelines and tanks, the fastening of screws and hooks, the reconditioning and repair of castings, the rebuilding of shafts, slide bearings, pumps and housings, the renewal of defective threads, the production of templates and models and for repair works on aluminium, light metal and injection moulded parts.

WEICON Epoxy Resin Putty can be used in machine construction, tool construction, model and mould making, and in many other industrial applications.





Technical Data

Product type	WEICON Plastic Metal in non-cured condition										
	Basis	Specific Properties	Complete Packaging Sizes	Mixing ratio (Weight %)		Pot life at 20°C/+68°F (min.)	Density of the mixture g/cm³	Viscosity of the mixture mPa.s	Max. layer thickness per application mm	Cure times in h	
				Resin	Hardener					(200 g preparation)	mechanical loads
WEICON A	Epoxy resin steel-filled	pasty	0,5 kg 2,0 kg	100	10	60	2,90	1.000.000	10	16	24
WEICON B	Epoxy resin steel-filled	viscous	0,5 kg 2,0 kg	100	7	60	2,75	200.000	10	16	24
WEICON BR	Epoxy resin bronze-filled	pasty	0,5 kg 2,0 kg	100	100	60	1,80	650.000	12	16	24
WEICON C	Epoxy resin aluminium-filled	liquid, high temperature resistant	0,5 kg 2,0 kg	100	8	60	1,62	25.000	60	24	48*1
WEICON F	Epoxy resin aluminium-filled	pasty	0,5 kg 2,0 kg	100	20	60	1,60	880.000	10	16	24
WEICON F2	Epoxy resin aluminium-filled	viscous	0,5 kg 2,0 kg	100	14	60	1,45	200.000	10	16	24
WEICON HB 300	Epoxy resin steel-filled	pasty, high temperature resistant	1,0 kg	100	100	30	2,34	1.700.000	20	12	24
WEICON Ceramic BL	Epoxy resin mineral-filled	liquid, extremely wear resistant	0,5 kg 2,0 kg	100	15	40	1,80	6.000	10	16	24
WEICON Ceramic W	Epoxy resin mineral-filled	pasty, extremely wear resistant	0,5 kg 2,0 kg	100	33	120	1,59	600.000	10	24	48*1
WEICON SF	Epoxy resin steel-filled	pasty, fast-curing	0,5 kg 2,0 kg	100	33	5	1,70	800.000	10	3	6
WEICON ST	Epoxy resin metal-filled	pasty, non corrosive	0,5 kg 2,0 kg	100	50	60	1,64	550.000	10	16	24
WEICON TI	Epoxy resin titanium-filled	pasty, wear resistant	0,5 kg 2,0 kg	100	33	120	1,61	550.000	10	24	48*1
WEICON UW	Epoxy resin mineral-filled	pasty, cures even under water	0,5 kg 2,0 kg	100	100	20	1,35	670.000	12	4	24
WEICON WP	Epoxydharz ceramic-filled	pasty, wear resistant	2,0 kg 10,0 kg	100	100	30	2,5	900.000	10	16	96
WEICON WR	Epoxy resin steel-filled	liquid, wear resistant	0,5 kg 2,0 kg	100	15	45	2,30	20.000	10	16	24
WEICON WR2	Epoxy resin mineral-filled	pasty, wear resistant	0,5 kg 2,0 kg	100	25	45	1,67	560.000	10	16	24
WEICON Epoxy Resin Putty	Epoxy resin mineral-filled	pasty, high temperature resistant	0,1 kg 0,4 kg 0,8 kg	100	100	30	2,00	Paste	20	2	3
WEICON Casting Resin MS 1000	Epoxy resin unfilled	liquid	1,0 kg	100	20	20	1,10	1.300	10	24	36

*1 Can be machined after 16 hours at room temperature (+20°C/+68°F). After 48 hours at room temperature, temper-curing in four steps (3 h +50°C/+122°F, 2 h +90°C/+194°F, 2 h +130°C/+266°F, 1 h +170°C/+338°F). After temper - curing a permanent temperature resistance of +200°C (+392°F) is reached.

Epoxy Resin Systems

Plastic Metal

Technical Data

Product type	WEICON Plastic Metal in cured condition								
	Mean strength at +25°C (+77°F) acc. to DIN 53281-83 / ASTM D 1002						Thermo forming resistance °C (°F)	Colour after curing	Temperature resistance °C (°F)
	Compressive MPa (psi)	Tensile MPa (psi)	Flexural MPa (psi)	E-Modul MPa (ksi)	Shore hardn. D (ASTM D 1706)	Shrinkage %			
WEICON A	80 (11.600)	21 (3.050)	34 (4.950)	3.500 - 5.000 (500 - 725)	90	0,015	+65 (+149)	dark-grey	-35 to +120 (-31 to +248)
WEICON B	110 (15.950)	21 (3.050)	52 (7.200)	3.500 - 5.000 (500 - 725)	90	0,030	+65 (+149)	dark-grey	-35 to +120 (-31 to +248)
WEICON BR	95 (13.800)	29 (4.200)	35 (5.100)	2.500 - 3.000 (360 - 435)	75	0,020	+50 (+122)	bronze	-35 to +120 (-31 to +248)
WEICON C	140 (20.300)	25 (3.600)	77 (11.150)	5.800 - 6.000 (840 - 870)	90	0,010	+130 (+266)	grey	-35 to +220 (-31 to +428)
WEICON F	61 (8.850)	20 (2.900)	37 (5.350)	1.500 - 2.000 (215 - 290)	84	0,020	+60 (+140)	aluminium	-35 to +120 (-31 to +248)
WEICON F2	43 (6.250)	14 (2.050)	26 (3.750)	1.500 - 2.000 (215 - 290)	79	0,025	+55 (+131)	aluminium	-35 to +120 (-31 to +248)
WEICON HB 300	100 (14.500)	27 (3.900)	42 (6.100)	9.500 - 10.000 (1.380 - 1.450)	85	0,015	+120 (+248)	dark-grey	-35 to +200 briefly to +280 (-31 to +392 briefly to +536)
WEICON Ceramic BL	85 (12.300)	22 (3.200)	95 (13.800)	7.000 - 8.000 (1.010 - 1.160)	83	0,020	+80 (+176)	blue	-35 to +180 (-31 to +356)
WEICON Ceramic W	140 (20.300)	30 (4.400)	90 (13.100)	4.500 - 5.000 (650 - 725)	85	0,020	+150 (+302)	white	-35 to +200 briefly to +260* (-31 to +392 briefly to +500)
WEICON SF	52 (7.550)	15 (2.180)	40 (5.800)	2.500 - 4.000 (360 - 580)	82	0,060	+40 (+104)	dark-grey	-35 to +90 (-31 to +194)
WEICON ST	80 (11.600)	27 (3.900)	38 (5.500)	2.000 - 2.500 (290 - 360)	80	0,020	+50 (+122)	grey	-35 to +120 (-31 to +248)
WEICON TI	105 (15.200)	35 (5.100)	100 (14.500)	4.500 - 5.000 (650 - 725)	80	0,020	+150 (+302)	grey	-35 to +200 briefly to +260* (-31 to +392 briefly to +500)
WEICON UW	60 (8.700)	30 (4.050)	38 (5.500)	2.000 - 2.500 (290 - 360)	70	0,020	+50 (+122)	white	-35 to +120 (-31 to +248)
WEICON WP	51 (7.400)	22 (3.200)	35 (5.100)	2.500 - 3.000 (360 - 435)	80	0,020	+50 (+122)	grey	-35 to +120 (-31 to +248)
WEICON WR	110 (15.950)	33 (4.800)	80 (11.600)	5.000 - 5.500 (725 - 800)	90	0,020	+65 (+149)	black	-35 to +120 (-31 to +248)
WEICON WR2	71 (10.300)	29 (4.200)	39 (5.650)	2.500 - 3.000 (360 - 435)	82	0,025	+65 (+149)	dark-grey	-35 to +120 (-31 to +248)
WEICON Epoxy Resin Putty	80 (11.600)	30 (4.350)	56 (8.100)	4.000 - 6.000 (580 - 870)	87	0,005	+95 (+149)	green	-35 to +200 (-31 to +392)
WEICON Casting Resin MS 1000	60 (8.700)	25 (3.600)	285 (41.300)	17.000 - 18.000 (2.460 - 2.610)	65	0,200	+50 (+122)	transparent, slightly inherent colour	-35 to +120 (-31 to +248)

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

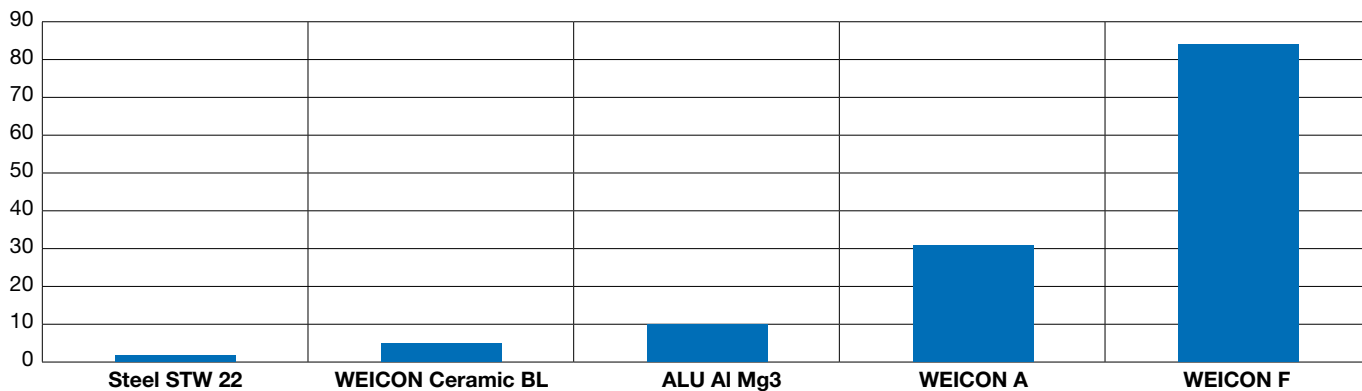
Lubricants

Other



Abrasion measurement according to Taber

With the standard procedure according to Taber, the abrasion resistance of different materials can be measured. Abrasion is caused by two friction rollers that are pressed to the rotating test sample with a pre-defined force. The test samples are plates made of the corresponding material. (Details are available upon request).



	Density (g/cm³)	Abrasion volume (mm³)
Steel STW 22	7,9	1,3
WEICON Ceramic BL	1,9	5
ALU Al Mg3	2,7	10
WEICON A	2,9	31
WEICON F	1,6	83



Epoxy Resin Systems

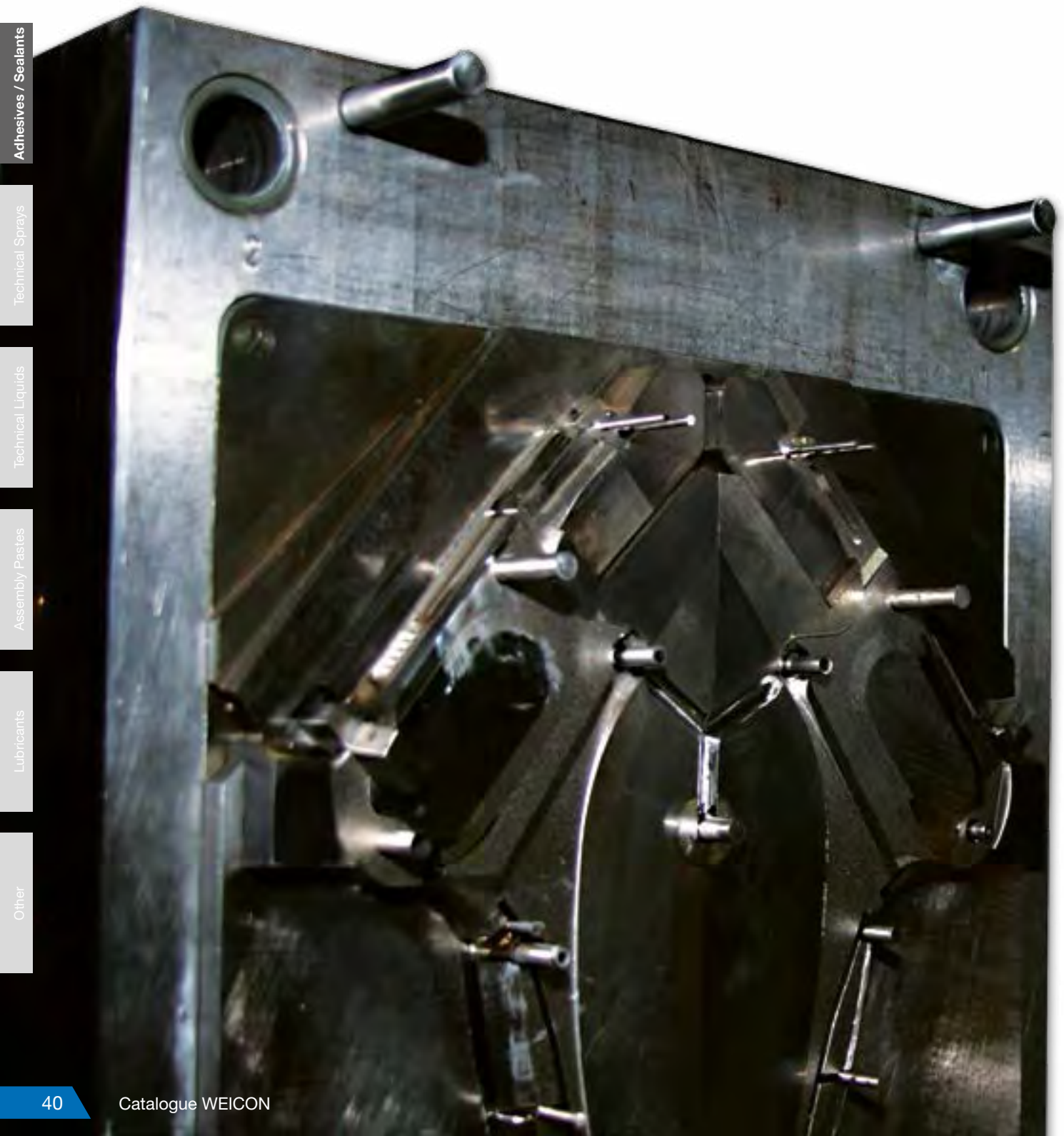
Plastic Metal

Chemical resistance of WEICON Plastic Metals after curing*

Acetic acid dilute < 5%	+	Hydrocarbons, aliphatic (crude oil derivatives)	+
Acetone	0	Hydrocarbons, aromatic (benzene, toluene, xylene)	-
Alkalis (basic materials)	+	Hydrochloric acid < 10%	+
Amyl acetate	+	Hydrochloric acid 10 - 20%	+
Amyl alcohols	+	Hydrofluoric acid dilute	0
Anhydrous ammonia 25%	+	Hydrogen peroxide < 30% (hydrogen superoxide)	+
Barium hydroxide	+	Impregnating oils	+
Butyl acetate	+	Magnesium hydroxide	+
Butyl alcohol	+	Maleic acid (cis-butenedioic acid)	+
Calcium hydroxide (slaked lime)	+	Methanol (methyl alcohol) < 85%	0
Carbolic acid (phenol)	-	Milk of lime	+
Carbon disulphide	+	Naphthalene	-
Carbon tetrachloride (tetrachloromethane)	+	Naphthene	-
Caustic potash solution	+	Nitric acid < 5%	0
Chlorinated water	+	Oils, minerals	+
Chloroacetic acid	-	Oils, vegetable and animal	+
Chloroform (trichloromethane)	0	Oxalic acid < 25% (ethanedioic acid)	+
Chlorosulphonic acid	-	Paraffin	+
Chromic acid	+	Perchloroethylene	0
Chroming baths	+	Petrol (92 - 100 octane)	+
Creosote oil	-	Phosphoric acid < 5%	+
Cresylic acid	-	Phthalic acid, phthalic acid anhydride	+
Crude oil	+	Potassium carbonate (potash solution)	+
Crude oil and crude oil products	+	Potassium hydroxide (caustic potash) 0 - 20%	+
Diesel fuel oil	+	Soda lye	+
Ethanol < 85% (ethyl alcohol)	0	Sodium bicarbonate (sodium hydrogen carbonate)	+
Ethyl alcohol	0	Sodium carbonate (soda)	+
Ethyl benzole	-	Sodium chloride (cooking salt)	+
Ethyl ether	+	Sodium hydroxide < 20% (caustic soda)	0
Exhaust gases	+	Sulphur dioxide	+
Formic acid > 10%	-	Sulphuric acid < 5%	0
Glycerine (trihydroxypropane)	+	Tannic acid dilute < 7%	+
Glycol	0	Tetralin (tetrahydronaphthalene)	0
Grease, oils and waxes	+	Toluene	-
Heating oil, diesel	+	Trichloroethylene	0
Humic acid	+	Turpentine substitute (white spirit)	+
Hydrobromic acid < 10%	+	Xylene	-

+ = resistant 0 = resistant for a limited time - = not resistant

* Storage of all WEICON Plastic Metals was at +20°C (+68°F) chemical temperature



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Epoxy Resin Systems

Mould Release Agent

Liquid F 1000

Solvent-containing

Liquid F 1000 is a release agent on a waxy basis for epoxy resins and polyurethanes.

It is especially suitable for release processes from smooth and non-absorbing surfaces.



250 ml ✓
10604025

1 l ✓
10604000

Technical Data

Basis	Wax, solvent-containing
Colour	white, milky
Consistency	liquid
Density at +20°C	0,71 g/cm ³
Consumption	50 to 100 ml/m ²
Application temperature	+15 to +25°C (+59 to +77°F)
Operational temperature	to +70°C (+158°F)

Wax P 500

Solvent-containing

Wax P 500 as a release agent on a waxy basis for epoxy resins and polyurethanes. It is especially suitable for release processes from rough and/or porous surfaces.



150 g ✓
10604515

500 g ✓
10604500

Technical Data

Basis	Wax, solvent-containing
Colour	white
Consistency	pasty
Density at +20°C	0,80 g/cm ³
Consumption	50 to 150 ml/m ²
Application temperature	+15 to +25°C (+59 to +77°F)
Operational temperature	to +50°C (+122°F)



Application

To ensure a perfect bond, the surfaces to be joined must be clean and dry (e.g., clean and degrease using Cleaner S or Plastic Cleaner). Smooth surfaces should be roughened, e.g. by sandblasting.

WEICON Repair-Sticks cover gaps of max. 15 mm per procedure. The pot life given is for a material quantity of 25 g at room temperature. If larger quantities are used, the curing time will be faster due to the typical heat reaction of epoxy resins (exothermic reaction).

Similarly, higher ambient temperatures shorten the cure time (as a rule of thumb, every +10°C (+50°F) increase above room temperature will halve working and curing time). Temperatures below +16°C (+61°F) will extend working and curing times considerably, while below about +5°C (+41°F), no reaction will take place at all.

Physiological properties / health and safety at work

WEICON Repair Sticks, when properly handled and completely cured, are toxicologically essentially harmless. When using these adhesives, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Storage

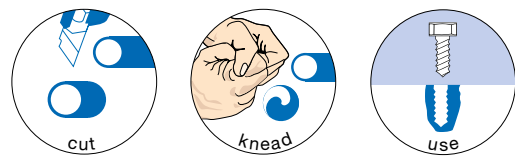
When kept at a constant room temperature of about +20°C (+68°F) and unopened in dry conditions, WEICON Repair Sticks will keep for at least 18 months. Avoid direct sunlight.

Epoxy Resin Systems

Repair Sticks

The uncomplicated solution for all repair and maintenance work.

Easy to use:



Always the right portion, even for small repairs.

WEICON Repair Sticks are temperature resistant from -50°C (-58°F) up to $+120^{\circ}\text{C}$ ($+248^{\circ}\text{F}$) (briefly up to $+150^{\circ}\text{C}/+302^{\circ}\text{F}$). They resist to alcohol, ester, salt water, oils, most acids and lyes, are free of solvents and cure with almost no shrinkage.

The cured product can be machined (drilled, filed, tapped) and overpainted without pre-treatment.

WEICON Repair Sticks bond:

- Metal
- Hard-plastics*
- Fibre-reinforced materials
- Wood
- Glass / ceramic / stone

For various applications there are nine different Repair Sticks to chose from.

*Except for plastics such as polyethylene, polypropylene, polyacetal, polytetrafluoroethylene and other fluorinated hydrocarbons with naturally adhesive-rejecting surfaces.



Repair Stick Aluminium

Non-rusting, aluminium-filled

For the quick and nonrusting repair and bonding of metal parts. For the repair of cracks, holes and leaks in car bodies, gearboxes and tanks, window frames and profiles, and boats and models.

The WEICON Repair Stick Aluminium can be used in machine and system construction, in the automotive industry, in gear construction, window construction, model building and many other applications.

57 g ✓
10534057

115 g ✓
10534115



Technical Data

Composition	Epoxy resin aluminium-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	4 min.
Density of the mixture	1,6 g/cm ³
Processing temperature	+10 to +35°C (+50 to +95°F)
Curing temperature	+6 to +40°C (+41 to +104°F)
Colour after curing	aluminium
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	10 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	80 N/mm ² (11.600 psi)
Shore hardness D	75
Average tensile shear strength after 7 days	4,2 N/mm ² (610 psi) (aluminium sandblasted)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)

Repair Stick Aqua

For underwater applications, ceramic-filled

Ideal for quick repairs on damp and wet surfaces and for underwater applications.

For the repair and sealing of cracks, holes, and leaks in petrol and water tanks, radiators, electrical switchboards, sanitary installations and swimming pools.

The WEICON Repair Stick Aqua can be used in sanitary and heating system construction, electrical equipment, the maritime sector and many additional industrial applications.

57 g ✓
10531057

115 g ✓
10531115



Technical Data

Composition	Epoxy resin ceramic-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	15 min.
Density of the mixture	1,9 g/cm ³
Processing temperature	+10 to +40°C (+50 to +104°F)
Curing temperature	+6 to +40°C (+41 to +104°F)
Colour after curing	white
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	30 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	75 N/mm ² (10.875 psi)
Shore hardness D	65
Average tensile shear strength after 7 days	6,2 N/mm ² (899 psi) (steel sandblasted)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)

Epoxy Resin Systems

Repair Sticks

Technical Data

Composition	Epoxy resin ceramic-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	6 min.
Density of the mixture	1,9 g/cm³
Processing temperature	+10 to +35°C (+50 to +95°F)
Curing temperature	+6 to +40°C (+41 to +104°F)
Colour after curing	concrete grey
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	15 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	80 N/mm² (11.600 psi)
Shore hardness D	80
Average tensile shear strength after 7 days	4,8 N/mm² (696 psi)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)

Repair Stick Concrete

Fast cure, ceramic-filled

Especially for quick repair and reconditioning of all concrete, stone and ceramic surfaces.

Fills and seals cracks and defects on masonry, stone, concrete and ceramic tiles and on bricks, borders, kerbstones, statues, tombstones and ornaments. It can also be used for the reinforcement of pegs, screws and anchors in outdoor and indoor areas.

The WEICON Repair Stick Concrete can be used in the construction industry, in gardening and landscaping, and in many other applications.



57 g ✓
10537057

115 g ✓
10537115

Repair of a cherub



Repair Stick Stainless Steel

Non-corrosive, fast cure, stainless steel-filled, NSF approval, can be used in drinking water areas

For non-corrosive repair and reconditioning of stainless steel and other rustproof metals, such as those in tanks and containers, filling and packing machines, pipes, lines, pumps and housings.

Due to the quick mechanical loading capacity of the mended parts (approx. 60 minutes), expensive and longer downtimes are avoided.

The WEICON Repair Stick Stainless Steel can be used in tank construction and apparatus engineering, in the foods, cosmetic and pharmaceutical industries and in many other applications.



Clearance certificate for the direct use in the food industry, according to the NSF/ANSI (Standard 61)



57 g ✓
10538057

115 g ✓
10538115

Technical Data

Composition	Epoxy resin stainless steel-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	4 min.
Density of the mixture	2,0 g/cm ³
Processing temperature	+10 to +35°C (+50 to +95°F)
Curing temperature	+6 to +40°C (+41 to +104°F)
Colour after curing	grey
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	10 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	80 N/mm ² (11.600 psi)
Shore hardness D	75
Average tensile shear strength after 7 days	3,9 N/mm ² (599 psi)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)



Repair of a labelling machine

Epoxy Resin Systems

Repair Sticks

Repair Stick Wood

Residual elasticity, mineral-filled

For permanent repairs of wooden parts with residual elasticity and without shrinkage. For the repair of cracks and bore holes, broken out or broken off wooden parts and for the sealing of joints on windows and door frames, veneers, boards and planks, models and wooden toys.

WEICON Repair Stick Wood can be used in the wood and furniture industry, in model building and in many other applications.

28 g ✓
1053205756 g ✓
10532115

Technical Data

Composition	Epoxy resin mineral-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	15 min.
Density of the mixture	0,9 g/cm ³
Processing temperature	+10 to +40°C (+50 to +104°F)
Curing temperature	+6 to +40°C (+41 to +104°F)
Colour after curing	light beige
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	45 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	75 N/mm ² (10.875 psi)
Shore hardness D	70
Average tensile shear strength after 7 days	6,2 N/mm ² (899 psi) (Beech sanded)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)



Restoration of a picture frame

Repair Stick Plastic

Plastic-filled, NSF approval, can be used in drinking water areas

Especially for the permanent repair of plastic components and composite materials with residual elasticity such as window and door frames, panelling and bumper bars.

For the bonding of metal parts such as pipes and pipe bends, fittings and flanges, water tanks, pumps and housings.

57 g ✓
10536057115 g ✓
10536115

Clearance certificate for the direct use in the food industry, according to the NSF/ANSI (Standard 61)

Technical Data

Composition	Epoxy resin and plastic fillers, pasty
Pot-life at +20°C (+68°F) (25 g material)	20 min.
Density of the mixture	1,6 g/cm ³
Processing temperature	+10 to +40°C (+50 to +104°F)
Curing temperature	+6 to +40°C (+41 to +104°F)
Colour after curing	light blue
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	40 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	3 h
Final strength (100% strength/+20°C/+68°F) after	36 h
Pressure (DIN 53281-83)	65 N/mm ² (9.400 psi)
Shore hardness D	65
Average tensile shear strength after 7 days	2,4 N/mm ² (348 psi) (PVC sanded)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)



Repair Stick Copper

Extremely fast cure, copper-filled, NSF approval, can be used in drinking water areas

The WEICON Repair Stick Copper is suited for the very quick repair (processing time: 3 min.) of cracks and leaks even on damp and wet surfaces such as pipes, pipe bends, fittings, flanges, copper gutters, sheets, water heaters, water tanks, hot, cold water lines, freezer and air conditioning systems.

The WEICON Repair Stick Copper can be used in tank construction and apparatus engineering, in the foods, cosmetic and pharmaceutical industries and in many other applications.



Clearance certificate for the direct use in the food industry, according to the NSF/ANSI (Standard 61)



Technical Data

Composition	Epoxy resin copper-filled, paste
Pot-life at +20°C (+68°F) (25 g material)	3 min.
Density of the mixture	1,9 g/cm ³
Processing temperature	+10 to +30°C (+50 to +86°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour after curing	copper
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	10 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	80 N/mm ² (11.600 psi)
Shore hardness D	80
Average tensile shear strength after 7 days	4,8 N/mm ² (696 psi) (copper sandblasted)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)

57 g ✓
10530057

115 g ✓
10530115

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Sealing of a copper tube

Epoxy Resin Systems

Repair Sticks

Repair Stick Steel

Fast cure, steel-filled, NSF approval, can be used in drinking water areas



It is particularly suited for the fast and high-strength repair and bonding of metal parts and for the patching and sealing of cracks, holes, and leaks in machine parts, tanks and pipelines, containers, pumps and housings, balcony railings, banisters, and torn-out threads.

The WEICON Repair Stick Steel can be used in machine and system construction, in tank construction and apparatus engineering, in the foods, cosmetic and pharmaceutical industries and in many other applications.

57 g ✓
10533057

115 g ✓
10533115



Clearance certificate for the direct use in the food industry, according to the NSF/ANSI (Standard 61)

Technical Data

Composition	Epoxy resin steel-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	4 min.
Density of the mixture	2,0 g/cm ³
Processing temperature	+10 to +35°C (+50 to +95°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour after curing	dark-grey
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	10 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F) after	24 h
Pressure (DIN 53281-83)	80 N/mm ² (11.600 psi)
Shore hardness D	75
Average tensile shear strength after 7 days	4,1 N/mm ² (595 psi) (sandblasted)
Temperature resistance	-50 to +120°C (-58 to +248°F) (briefly to +150°C/+302°F)

Repair Stick Titanium

Wear resistant, titanium-filled, high temperature resistant up to +280°C (+536°F) (briefly up to +300°C/+572°F)



It is suited for the permanent and wear resistant repair and bonding of metal parts such as tanks and pipelines, aluminium, light metal and injection moulded parts, shafts and slide bearings, pumps and housings and torn-out threads.

The WEICON Repair Stick Titanium can be used in machine and system construction, tank construction and apparatus engineering, and in many other industrial applications.

57 g ✓
10535057

115 g ✓
10535115

Technical Data

Composition	Epoxy resin titanium-filled, pasty
Pot-life at +20°C (+68°F) (25 g material)	30 min.
Density of the mixture	1,9 g/cm ³
Processing temperature	+10 to +50°C (+50 to +122°F)
Curing temperature	+6 to +65°C (+43 to +149°F)
Colour after curing	grey-green
Gap covering power to max.	15 mm
Handling strength (35% strength/+20°C/+68°F) after	60 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	4 h
Final strength (100% strength/+20°C/+68°F) after	48 h (24h at +65°C/149°F)
Pressure (DIN 53281-83)	80 N/mm ² (11.600 psi)
Shore hardness D	80
Average tensile shear strength after 7 days	7,5 N/mm ² (1.080 psi) (Steel sandblasted)
Temperature resistance	-50 to +280°C (-58 to +536°F) (briefly to +300°C/+572°F)



Type selection table

	Aluminium	Aqua	Concrete	Stainless steel	Wood	Plastic	Copper	Steel	Titanium
Metals (e.g. aluminium, cast iron, brass, stainless steel)	++	++	+	++	+	+	++	++	++
Hard plastics* (e.g. epoxy resin, rigid PVC)	+	++	+	+	+	++	+	+	+
Fibre-reinforced materials (e.g. GFRP, CFRP, fibreglass)	+	+	+	+	+	++	+	+	+
Wood (e.g. oak, beech, spruce, balsa)	+	+	+	+	++	+	+	+	+
Derived timber products (e.g. plywood, MDF)	+	+	+	+	++	+	+	+	+
Glass, ceramics	+	++	+	+	+	+	+	+	+
Stone (e.g. marble, granite, brick, concrete)	+	++	++	+	+	+	+	+	+
Rubber / elastomers	-	-	-	-	-	-	-	-	-

Highly suitable (++)

Suitable (+)

Not suitable (-)

*Except for plastics such as polyethylene, polypropylene, polyacetal, polytetrafluoroethylene and other fluorinated hydrocarbons with naturally adhesive-rejecting surfaces. Within the framework of the above type recommendations, bonding of dissimilar material pairs such as metals and plastics is also possible.



Sealing of a siphon



Repair of a PVC pipe

Epoxy Resin Systems

Repair Sticks

Technical Data

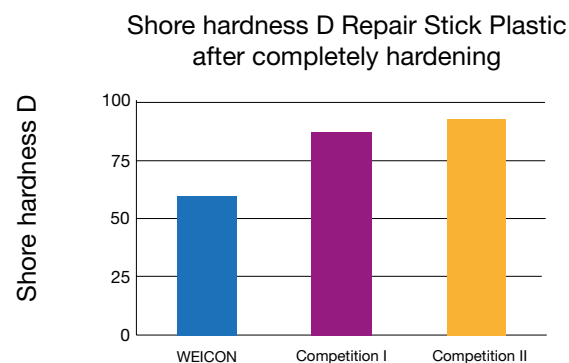
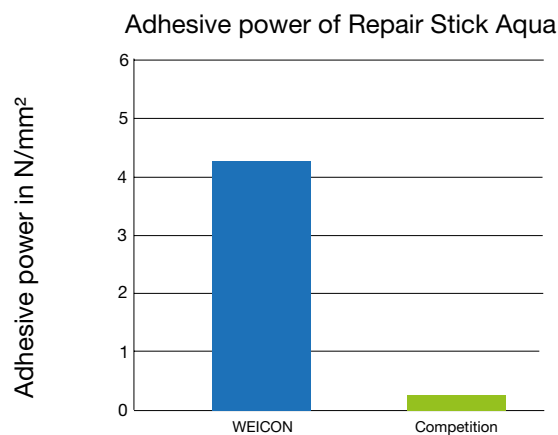
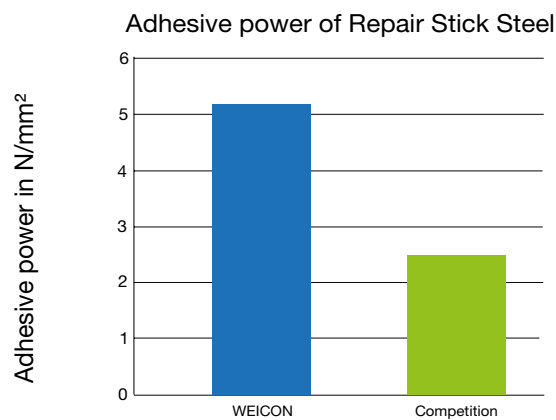
WEICON Repair-Sticks in non-cured condition											
		Aluminium	Aqua	Concrete	Stainless steel	Wood	Plastic	Copper	Steel	Titanium	
Basis:		Epoxy resin aluminium fillers	Epoxy resin ceramic fillers	Epoxy resin ceramic fillers	Epoxy resin stainless steel fillers	Epoxy resin mineral fillers	Epoxy resin plastic fillers	Epoxy resin copper fillers	Epoxy resin metal fillers	Epoxy resin titanium fillers	
Nature:		putty									
Supplied in:		Stick									
Contents:		57 g / 115 g	57 g / 115 g	57 g / 115 g	57 g / 115 g	28 g / 56 g	57 g / 115 g	57 g / 115 g	57 g / 115 g	57 g / 115 g	
Mixing proportion by volume resin / hardener (automatically):		1 : 1									
Pot-life with 25 g material and at +20°C (+68°F) (in minutes):		4	15	6	4	15	20	3	4	30	
Density of the mixture (g/cm³):		1,6	1,9	1,9	2,0	0,9	1,6	1,9	2,0	1,9	
Temperature °C (°F)	Processing: *1	+10 to +35 (+50 to +95)	+10 to +40 (+50 to +104)	+10 to +35 (+50 to +95)	+10 to +35 (+50 to +95)	+10 to +40 (+50 to +104)	+10 to +40 (+50 to +104)	+10 to +30 (+50 to +86)	+10 to +35 (+50 to +95)	+10 to +50 (+50 to +122)	
	Curing:	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +40 (+43 to +104)	+6 to +65 (+43 to +149)
Colour after curing:		aluminium	white	concrete-grey	grey	light beige	light blue	copper	dark-grey	grey-green	
Gap covering power to max.:*2		15 mm									
Curing time at bei +20°C (+68°F)	Handling strength (35% strength) after:	10 min.	30 min.	15 min.	10 min.	45 min.	40 min.	10 min.	10 min.	1 hrs.	
	Capable of bearing mechanical loads (50% strength) after:	60 min.	60 min.	60 min.	60 min.	60 min.	3 hrs.	60 min.	60 min.	4 hrs.	
	Final strength (100% strength) after:	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	36 hrs.	24 hrs.	24 hrs.	48 hrs. (24 hrs. at +65°C/+149°F)	
WEICON Repair-Sticks in cured condition											
Pressure (DIN 53281-83) N/mm² (psi):		80 N/mm² (11.600)	75 N/mm² (10.875)	80 N/mm² (11.600)	80 N/mm² (11.600)	75 N/mm² (10.875)	65 N/mm² (9.425)	80 N/mm² (11.600)	80 N/mm² (11.600)	80 N/mm² (11.600)	
Shore hardness D:		75	65	80	75	70	65	80	75	80	
Average tensile shear strength after 7 days at +20°C (+68°F) in accordance with DIN 53283 N/mm² (psi):		Aluminium sandblasted 4,2 N/mm² (609)	Steel sandblasted 6,2 N/mm² (899)	Concrete 4,8 N/mm² (696)	Stainless steel sandblasted 3,9 N/mm² (566)	Beech sanded 6,2 N/mm² (899)	PVC sanded 2,4 N/mm² (348)	Copper sandblasted 4,8 N/mm² (696)	Steel sandblasted 4,1 N/mm² (595)	Steel sandblasted 7,5 N/mm² (1.080)	
Temperature resistance °C (°F):		-50 to +120, briefly +150 (-58 to +248, briefly +302)								-50 to +280, briefly +300 (-58 to +536, briefly +572)	
Thermal conductivity (ASTM D 257):		0,65 W/m-K	0,50 W/m-K	0,50 W/m-K	0,60 W/m-K	0,30 W/m-K	0,40 W/m-K	0,70 W/m-K	0,60 W/m-K	0,50 W/m-K	
Linear shrinkage:		< 1%									
Electrical resistance (ASTM D 257):		5 · 10 ¹¹ Ω/cm									
Dielectric strength (ASTM D 149):		3,0 kV/mm									
Thermal expansion coefficient (ISO 11359):		30-40 x 10 ⁻⁶ k ⁻¹									

*1 For easier workability when ambient temperatures are low, the sticks should be warmed up to room temperature (20°C/+68°F) before application.

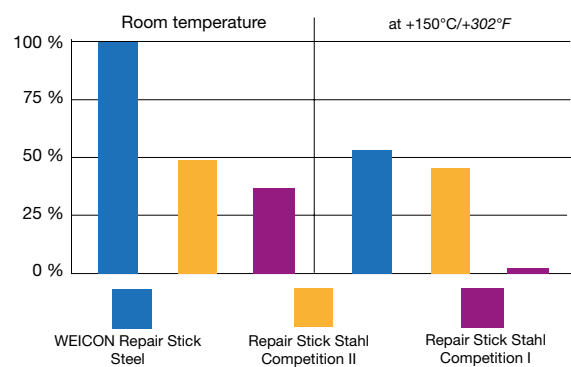
*2 Max. 15 mm per procedure

Test Results

We have conducted a series of laboratory tests to compare sticks from various countries. Some of the test results are summarised in the tables shown below.

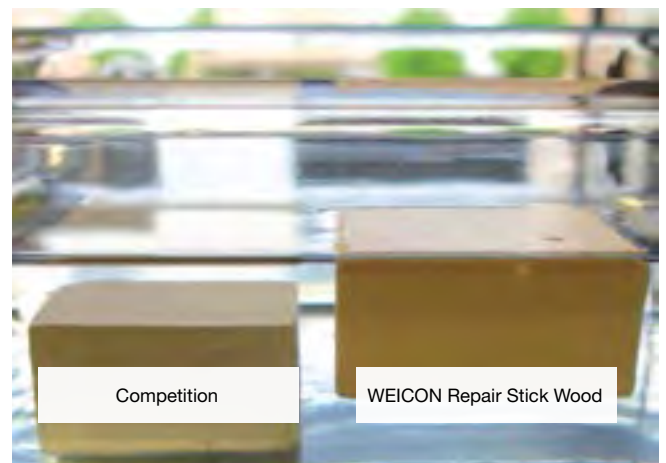


Tensile shear strength on steel



WEICON Repair Stick Wood

A special item in the product range is the Repair Stick Wood. It was developed for carrying out repairs on furniture, shelving, etc. To enable a „seamless“ repair, it was given the same density as wood. Following curing it can be processed like wood, e.g. sanded and painted over. In the test shown below the WEICON Repair Stick floats on the surface like wood, while competitive products sink to the bottom due to their high density.



Repair Sticks

Chemical resistance of WEICON Repair Sticks after curing*

Acetic acid dilute < 5%	+	Hydrocarbons, aliphatic (crude oil derivatives)	+
Acetone	0	Hydrocarbons, aromatic (benzene, toluene, xylene)	-
Alkalis (basic materials)	+	Hydrochloric acid < 10%	+
Amyl acetate	+	Hydrochloric acid 10 - 20%	+
Amyl alcohols	+	Hydrofluoric acid dilute	0
Anhydrous ammonia 25%	+	Hydrogen peroxide < 30% (hydrogen superoxide)	+
Barium hydroxide	+	Impregnating oils	+
Butyl acetate	+	Magnesium hydroxide	+
Butyl alcohol	+	Maleic acid (cis-butenedioic acid)	+
Calcium hydroxide (slaked lime)	+	Methanol (methyl alcohol) < 85%	0
Carbolic acid (phenol)	-	Milk of lime	+
Carbon disulphide	+	Naphthalene	-
Carbon tetrachloride (tetrachloromethane)	+	Naphthene	-
Caustic potash solution	+	Nitric acid < 5%	0
Chlorinated water	+	Oils, minerals	+
Chloroacetic acid	-	Oils, vegetable and animal	+
Chloroform (trichloromethane)	0	Oxalic acid < 25% (ethanedioic acid)	+
Chlorosulphonic acid	-	Paraffin	+
Chromic acid	+	Perchloroethylene	0
Chroming baths	+	Petrol (92 - 100 octane)	+
Creosote oil	-	Phosphoric acid < 5%	+
Cresylic acid	-	Phthalic acid, phthalic acid anhydride	+
Crude oil	+	Potassium carbonate (potash solution)	+
Crude oil and crude oil products	+	Potassium hydroxide (caustic potash) 0 - 20%	+
Diesel fuel oil	+	Soda lye	+
Ethanol < 85% (ethyl alcohol)	0	Sodium bicarbonate (sodium hydrogen carbonate)	+
Ethyl alcohol	0	Sodium carbonate (soda)	+
Ethyl benzole	-	Sodium chloride (cooking salt)	+
Ethyl ether	+	Sodium hydroxide < 20% (caustic soda)	0
Exhaust gases	+	Sulphur dioxide	+
Formic acid > 10%	-	Sulphuric acid < 5%	0
Glycerine (trihydroxypropane)	+	Tannic acid dilute < 7%	+
Glycol	0	Tetralin (tetrahydronaphthalene)	0
Grease, oils and waxes	+	Toluene	-
Heating oil, diesel	+	Trichloroethylene	0
Humic acid	+	Turpentine substitute (white spirit)	+
Hydrobromic acid < 10%	+	Xylene	-

+ = resistant 0 = resistant for a limited time - = not resistant

*Storage of all WEICON Epoxy Adhesives was at +20°C/+68°F chemical temperature



WEICON Easy-Mix Mixing and Dosing System

Thanks to the modern mixing and dosing system, all types can be dosed cleanly and accurately automatically, mixed and applied in only one working operation.

In this way, a uniform quality and process assurance is guaranteed in a production series.

Product advantages:

- Ready for use
- Dosing, mixing and application in just one working operation
- Tedious mixing by hand is no longer necessary, so that no mixing and dosing mistakes are possible
- Speedy in application
- Faster cycle times in series production possible
- Economical in use, as minimal material wastage

10653050



WEICON Easy-Mix Hand Dispenser D50

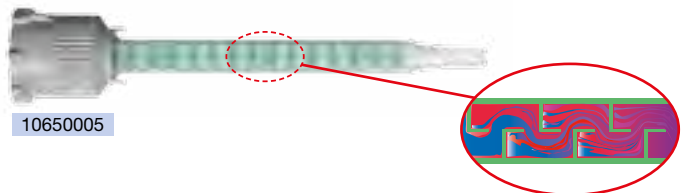
Robust, fracture-resistant construction of fibreglass reinforced plastic (polyamide) with a metal trigger.



WEICON Mixing Nozzles

Quadro Mixing Nozzle

For all Easy-Mix types (except „Metal“)



10650005

Helix Mixing Nozzle

For Easy-Mix Metal



10650006

Epoxy Resin Systems

Epoxy Adhesives

WEICON Epoxy Adhesives

Fast, safe, economical

WEICON Epoxy Adhesives are cold-curing, solvent-free two-component systems with extremely strong bonding properties. They enable material bonds with high tensile and impact strength and are thus ideal for assembly, repairs and production.

In particular in cases of innovative constructions and bonds between different materials such as e.g.

- metals
- hard plastics
- fibre-reinforced materials (GRP, CFRP, fibreglass etc.)
- ceramics
- glass, stone
- wood etc.

Today's requirements are ever more demanding (e.g., optically attractive joints coupled with very high strength). Frequently these materials are combined with one another, which leads to additional requirements.

Here the use of WEICON Epoxy Adhesives offer a number of advantages:

- When using WEICON Epoxy Adhesives, the surfaces of the materials are not altered as they are when e.g., soldering or welding is employed.
- No stresses are caused in the materials, and there is no need to use additional fixing methods.
- Through the use of thinner and lighter materials, simpler and more cost-effective constructions are often possible. This can sometimes result in considerable reductions in both weight and costs.

Application of all WEICON Epoxy Adhesives is by means of practical double syringes. By this method, both resin and hardener are delivered in a user-friendly manner in the 1:1 volume proportions. Time-consuming weighing up of the two components is no longer necessary.

Through the use of WEICON Epoxy Adhesives, there are to be found varied applications in all sectors, from simple repair and overhaul work to series applications in almost all branches of industry.

Application

To ensure a perfect bond, the surfaces to be joined must be clean and dry (e.g., clean and degrease using WEICON Surface Cleaner). Smooth surfaces should be roughened, e.g. by sandblasting.

Apply adhesive to only one of the surfaces to be bonded. WEICON Epoxy Adhesives will bridge a gap of 0.2 mm and of 2 mm (for Fast Metal Minute Adhesive minimum 0.5 mm and maximum 4 mm). The pot life given is for a material quantity of 10 ml at room temperature. If larger quantities are used, the curing time will be faster due to the typical reaction heat of epoxy resins (exothermic reaction). Similarly, higher ambient temperatures shorten the curing time (as a rule of thumb, every +10°C (+50°F) increase above room temperature will halve working and curing time). Temperatures below +16°C (+61°F) will extend working and curing times considerably, while below about +5°C (+41°F), no reaction will take place at all.

Physiological properties / health and safety at work

WEICON Epoxy Adhesives, when properly handled and completely cured, are toxicologically essentially harmless. When using these adhesives, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Storage

When kept at a constant room temperature of about +20°C (+68°F) and unopened in dry conditions, WEICON Epoxy Adhesives will keep for at least 18 months. Avoid direct sunlight. If these storage instructions are disregarded, the storage life will be reduced to six months.

Epoxy resins are fundamentally liable to crystallise at temperatures of less than +5°C (+41°F). This effect is accentuated by wide variations in temperature such as can frequently occur during transport in winter. This also has a negative effect on working qualities, curing and technical details, although these effects can be reversed by warming up to a maximum of +50°C (+122°F) (no naked flame). In the case of WEICON Epoxy Adhesives, careful selection and combination of the base resins (bisphenol A and F) ensures a reduction of crystallisation.

Easy-Mix S 50

Viscous, self-levelling, very short pot life, fast-curing, extremely high adhesive force

WEICON Easy-Mix S 50 can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood.

WEICON Easy-Mix S 50 is suited for quick repair and maintenance work and is ideal for industrial series production with short cycle times.



50 ml ✓
10650050

Technical Data

Basis	Epoxy resin unfilled
Nature	viscid
Supplied in	double cartridge
Content	50 ml
Mixing ratio by volume (Resin/Hardener)	1 : 1
Pot life with 10 ml material at +20°C (+68°F)	4-5 min.
Density of the mixture	1,15 g/cm ³
Viscosity of the mixture at +20°C (+68°F)	8.500 mPa·s
Processing temperature	+10 to +30°C (+50 to +86°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour	slightly yellowish, clear
Gap covering power to max.	2 mm
Handling strength (35% strength/+20°C/+68°F)	30 min.
Capable of bearing mechanical loads(50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F)	24 h
Average strength (+25°C/+77°F) DIN 53281-83	
Pressure	9 MPa (1.300 psi)
Tensile	40 MPa (5.800 psi)
Torsion	58 MPa (8.400 psi)
Shore hardness D	65
Average tensile shear strength as per DIN 53283 on	
Steel, sand-blasted	20 N/mm ² (2.900 psi)
Aluminium, sand-blasted	19 N/mm ² (2.800 psi)
Rigid PVC, roughened	13 N/mm ² (1.900 psi)
Temperature resistance	-50 to +80°C (-58 to +176°F)

Easy-Mix N 50

Viscous, self-levelling, normal pot life, normal-curing, high adhesive force

WEICON Easy-Mix N 50 can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood.

WEICON Easy-Mix N 50 is suited for manufacturing processes with assembly and positioning carried out at different times.



50 ml ✓
10650150

Technical Data

Basis	Epoxy resin unfilled
Nature	viscid
Supplied in	double cartridge
Content	50 ml
Mixing ratio by volume (Resin/Hardener)	1 : 1
Pot life with 10 ml material at +20°C (+68°F)	45 min.
Density of the mixture	1,07 g/cm ³
Viscosity of the mixture at +20°C (+68°F)	7.500 mPa·s
Processing temperature	+10 to +40°C (+50 to +104°F)
Curing temperature	+10 to +40°C (+50 to +104°F)
Colour	slightly yellowish, clear
Gap covering power to max.	2 mm
Handling strength (35% strength/+20°C/+68°F)	120 min.
Capable of bearing mechanical loads(50% strength/+20°C/+68°F) after	24 h
Final strength (100% strength/+20°C/+68°F)	72 h
Average strength (+25°C/+77°F) DIN 53281-83	
Pressure	2 MPa (300 psi)
Tensile	35 MPa (5.100 psi)
Torsion	50 MPa (7.300 psi)
Shore hardness D	55
Average tensile shear strength as per DIN 53283 on	
Steel, sand-blasted	17 N/mm ² (2.500 psi)
Aluminium, sand-blasted	16 N/mm ² (2.300 psi)
Rigid PVC, roughened	11 N/mm ² (1.600 psi)
Temperature resistance	-50 to +80°C (-58 to +176°F)

Epoxy Resin Systems

Epoxy Adhesives

Easy-Mix N 5000

Liquid, self-levelling, shorter pot life, fast-curing, extremely high adhesive force

Easy-Mix N 5000 can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood and is suited for connections where appearances are important.



50 ml ✓
10650250

Technical Data

Basis	Epoxy resin unfilled
Nature	liquid
Supplied in	double cartridge
Content	50 ml
Mixing ratio by volume (Resin/Hardener)	1 : 1
Pot life with 10 ml material at +20°C (+68°F)	20 min.
Density of the mixture	1,07 g/cm ³
Viscosity of the mixture at +20°C (+68°F)	5.000 mPa·s
Processing temperature	+10 to +35°C (+50 to +95°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour	almost colourless, crystal clear
Gap covering power to max.	2 mm
Handling strength (35% strength/+20°C/+68°F)	60 min.
Capable of bearing mechanical loads (50% strength/+20°C/+68°F) after	3 h
Final strength (100% strength/+20°C/+68°F)	48 h
Average strength (+25°C/+77°F) DIN 53281-83	
Pressure	10 MPa (1.500 psi)
Tensile	40 MPa (5.800 psi)
Torsion	50 MPa (7.300 psi)
Shore hardness D	65
Average tensile shear strength as per DIN 53283 on	
Steel, sand-blasted	21 N/mm ² (3.000 psi)
Aluminium, sand-blasted	19 N/mm ² (2.800 psi)
Rigid PVC, roughened	14 N/mm ² (2.000 psi)
Temperature resistance	-50 to +80°C (-58 to +176°F)



Easy-Mix Metal

Steel-filled, viscid, self-levelling, short pot life, fast curing, machinable, temperature resistant up to +145°C (+293°F)

WEICON Easy-Mix Metal can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood and is suited for bonds requiring larger tolerances to be bridged.



50 ml ✓
10652050

Technical Data

Basis	Epoxy resin steel-filled
Nature	viscid
Supplied in	double cartridge
Content	50 ml
Mixing ratio by volume (Resin/Hardener)	1 : 1
Pot life with 10 ml material at +20°C (+68°F)	4-5 min.
Density of the mixture	1,80 g/cm ³
Viscosity of the mixture at +20°C (+68°F)	120.000 mPa·s
Processing temperature	+10 to +30°C (+50 to +86°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour	black
Gap covering power to max.	2 mm
Handling strength (35% strength/+20°C/+68°F)	40 min.
Capable of bearing mechanical loads(50% strength/+20°C/+68°F) after	2 h
Final strength (100% strength/+20°C/+68°F)	24 h
Average strength (+25°C/+77°F) DIN 53281-83	
Pressure	10 MPa (1.500 psi)
Tensile	24 MPa (3.500 psi)
Torsion	58 MPa (8.400 psi)
Shore hardness D	70
Average tensile shear strength as per DIN 53283 on	
Steel, sand-blasted	20 N/mm ² (2.900 psi)
Aluminium, sand-blasted	19 N/mm ² (2.800 psi)
Rigid PVC, roughened	11 N/mm ² (1.600 psi)
Temperature resistance	-50 to +145°C (-58 to +293°F)

Epoxy Minute Adhesive

Viscous, self-levelling, very short pot life, fast-curing, residual elasticity, shockproof, extremely high adhesive strength

WEICON Epoxy Minute Adhesive can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood.

Epoxy Minute Adhesive is suited for construction and assembly work whenever the use of the WEICON Easy-Mix System is inefficient.



24 ml ✓
10550024

Technical Data

Basis	Epoxy resin unfilled
Nature	viscid
Supplied in	double syringe
Content	24 ml
Mixing ratio by volume (Resin/Hardener)	1 : 1
Pot life with 10 ml material at +20°C (+68°F)	3-4 min.
Density of the mixture	1,14 g/cm ³
Viscosity of the mixture at +20°C (+68°F)	32.000 mPa·s
Processing temperature	+10 to +30°C (+50 to +86°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour	colourless, glass clear
Gap covering power to max.	2 mm
Handling strength (35% strength/+20°C/+68°F)	35 min.
Capable of bearing mechanical loads(50% strength/+20°C/+68°F) after	1 h
Final strength (100% strength/+20°C/+68°F)	24 h
Average strength (+25°C/+77°F) DIN 53281-83	
Pressure	9 MPa (1.300 psi)
Tensile	40 MPa (5.800 psi)
Torsion	58 MPa (8.400 psi)
Shore hardness D	65
Average tensile shear strength as per DIN 53283 on	
Steel, sand-blasted	19 N/mm ² (2.800 psi)
Aluminium, sand-blasted	18 N/mm ² (2.600 psi)
Rigid PVC, roughened	12 N/mm ² (1.700 psi)
Temperature resistance	-50 to +80°C (-58 to +176°F)

Can alternatively be processed with Static Mixer Nozzle Quadro (Art.-Nr. 10650005).

Epoxy Adhesives

Fast-Metal Minute Adhesive

Steel-filled, pasty, gap-filling, residual elasticity, shock resistant, very short pot life, fast-curing, machinable, extremely high adhesive strength



24 ml ✓
10551024

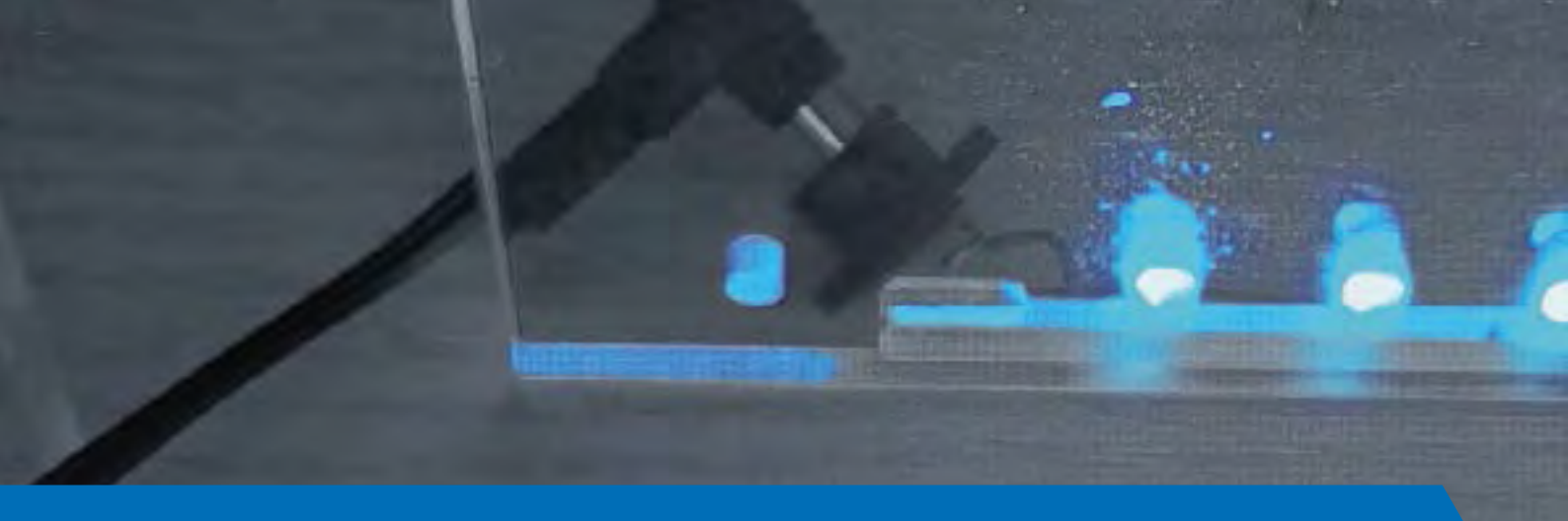
WEICON Fast-Metal Minute Adhesive is ideal for repairs and bondings with larger bonding gaps or bigger tolerances. The gap filling properties make it suitable for rough and poorly fitting surfaces but also to fill in cracks, cavities and unlevelled surfaces.

Fast-Metal Minute Adhesive can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood.

Technical Data

Basis	Epoxy resin steel-filled
Nature	paste consistency, crack-filler
Supplied in	double syringe
Content	24 ml
Mixing ratio by volume (Resin/Hardener)	1 : 1
Pot life with 10 ml material at +20°C (+68°F)	3-4 min.
Density of the mixture	1,80 g/cm ³
Viscosity of the mixture at +20°C (+68°F)	300.000 mPa·s
Processing temperature	+10 to +30°C (+50 to +86°F)
Curing temperature	+6 to +40°C (+43 to +104°F)
Colour	grey
Gap covering power to max.	4 mm
Handling strength (35% strength/+20°C/+68°F)	40 min.
Capable of bearing mechanical loads(50% strength/+20°C/+68°F) after	2 h
Final strength (100% strength/+20°C/+68°F)	24 h
Average strength (+25°C/+77°F) DIN 53281-83	
Pressure	10 MPa (1.500 psi)
Tensile	24 MPa (3.500 psi)
Torsion	58 MPa (8.400 psi)
Shore hardness D	70
Average tensile shear strength as per DIN 53283 on	
Steel, sand-blasted	20 N/mm ² (2.900 psi)
Aluminium, sand-blasted	19 N/mm ² (2.800 psi)
Rigid PVC, roughened	11 N/mm ² (1.600 psi)
Temperature resistance	-50 to +145°C (-58 to +293°F)





Type selection table

	Easy-Mix S 50	Easy-Mix N 50	Easy-Mix N 5000	Easy-Mix Metal	Epoxy Minute Adhesive	Fast Metal Minute Adhesive
Metals (e.g. aluminium, cast iron, brass, stainless steel)	++	+	++	++	+	++
Hard plastics* (e.g. rigid PVC)	++	++	++	+	+	+
Fibre-reinforced materials (e.g. GRP, CFRP, fiberglass)	++	+	++	++	+	+
Wood (hardwood and softwood)	+	+	++	+	+	+
Balsa wood	++	++	+	+	++	+
Timber products (e.g. plywood)	+	+	+	+	+	+
Glass ceramics	+	+	+	+	+	+
Stone (e.g. marble, granite, brick, concrete)	++	++	++	++	++	+
Rubber / elastomers	-	-	-	-	-	-

Highly suitable (++)

Suitable (+)

Not suitable (-)

*Except for plastics such as polyethylene, polypropylene, polyacetat, polytetrafluoroethylene and other fluorinated hydrocarbons with naturally adhesive-rejecting surfaces. Within the framework of the above type recommendations, bonding of dissimilar material pairs such as metals and plastics is also possible.

Chemical resistance of WEICON Epoxy Adhesives after curing *

Acetic acid dilute < 5%	+	Hydrocarbons, aliphatic (crude oil derivatives)	+
Acetone	0	Hydrocarbons, aromatic (benzene, toluene, xylene)	-
Alkalis (basic materials)	+	Hydrochloric acid < 10%	+
Amyl acetate	+	Hydrochloric acid 10 - 20%	+
Amyl alcohols	+	Hydrofluoric acid dilute	0
Anhydrous ammonia 25%	+	Hydrogen peroxide < 30% (hydrogen superoxide)	+
Barium hydroxide	+	Impregnating oils	+
Butyl acetate	+	Magnesium hydroxide	+
Butyl alcohol	+	Maleic acid (cis-butenedioic acid)	+
Calcium hydroxide (slaked lime)	+	Methanol (methyl alcohol) < 85%	0
Carbolic acid (phenol)	-	Milk of lime	+
Carbon disulphide	+	Naphthalene	-
Carbon tetrachloride (tetrachloromethane)	+	Naphthene	-
Caustic potash solution	+	Nitric acid < 5%	0
Chlorinated water	+	Oils, minerals	+
Chloroacetic acid	-	Oils, vegetable and animal	+
Chloroform (trichloromethane)	0	Oxalic acid < 25% (ethanedioic acid)	+
Chlorosulphonic acid	-	Paraffin	+
Chromic acid	+	Perchloroethylene	0
Chroming baths	+	Petrol (92 - 100 octane)	+
Creosote oil	-	Phosphoric acid < 5%	+
Cresylic acid	-	Phthalic acid, phthalic acid anhydride	+
Crude oil	+	Potassium carbonate (potash solution)	+
Crude oil and crude oil products	+	Potassium hydroxide (caustic potash) 0 - 20%	+
Diesel fuel oil	+	Soda lye	+
Ethanol < 85% (ethyl alcohol)	0	Sodium bicarbonate (sodium hydrogen carbonate)	+
Ethyl alcohol	0	Sodium carbonate (soda)	+
Ethyl benzole	-	Sodium chloride (cooking salt)	+
Ethyl ether	+	Sodium hydroxide < 20% (caustic soda)	0
Exhaust gases	+	Sulphur dioxide	+
Formic acid > 10%	-	Sulphuric acid < 5%	0
Glycerine (trihydroxypropane)	+	Tannic acid dilute < 7%	+
Glycol	0	Tetralin (tetrahydronaphthalene)	0
Grease, oils and waxes	+	Toluene	-
Heating oil, diesel	+	Trichloroethylene	0
Humic acid	+	Turpentine substitute (white spirit)	+
Hydrobromic acid < 10%	+	Xylene	-

+ = resistant 0 = resistant for a limited time - = not resistant

*Storage of all WEICON Epoxy Adhesives was at +20°C chemical temperature

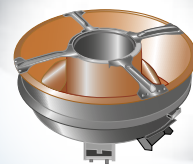
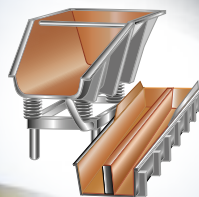
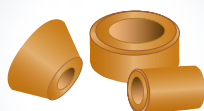
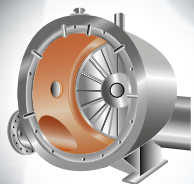
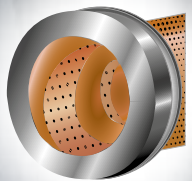
Epoxy Adhesives

Technical Data

		WEICON Epoxy Adhesives in liquid condition					
		Easy-Mix S 50	Easy-Mix N 50	Easy-Mix N 5000	Easy-Mix Metal	Epoxy Minute Adhesive	Fast-Metal Minute Adhesive
Basis:		Epoxy resin unfilled	Epoxy resin unfilled	Epoxy resin unfilled	Epoxy resin steel-filled	Epoxy resin unfilled	Epoxy resin steel-filled
Nature:		viscous	viscous	fluid	viscous	viscous	crack-filler
Supplied in:		double cartridge	double cartridge	double cartridge	double cartridge	double syringe	double syringe
Content:		50 ml	50 ml	50 ml	50 ml	24 ml	24 ml
Mixing proportion by volume resin / hardener (automatically):		1 : 1	1 : 1	1 : 1	1 : 1	1 : 1	1 : 1
Pot life with 10 ml material at +20°C (+68°F)		4 - 5	45	20	4 - 5	3 - 4	3 - 4
Density of the mixture (g/cm³):		1,15	1,07	1,07	1,80	1,14	1,80
Viscosity of the mixture at +20°C (+68°F):		8.500 mPa·s (cP)	7.500 mPa·s (cP)	5.000 mPa·s (cP)	120.000 mPa·s (cP)	32.000 mPa·s (cP)	300.000 mPa·s (cP)
Temperature	Processing*1:	+10°C to +30°C (+50°F to +86°F)	+10°C to +40°C (+50°F to +104°F)	+10°C to +35°C (+50°F to +95°F)	+10°C to +30°C (+50°F to +86°F)	+10°C to +30°C (+50°F to +86°F)	+10°C to +30°C (+50°F to +86°F)
	Cure:	+6°C to +40°C (+43°F to +104°F)	+10°C to +40°C (+50°F to +104°F)	+6°C to +40°C (+43°F to +104°F)	+6°C to +40°C (+43°F to +104°F)	+6°C to +40°C (+43°F to +104°F)	+6°C to +40°C (+43°F to +104°F)
Colour:		slightly yellowish, clear	slightly yellowish, clear	almost colourless, glass clear	black	almost colourless, glass clear	grey
Gap covering power to max.*2:		2 mm	2 mm	2 mm	2 mm	2 mm	4 mm
Cure time at +20°C (+68°F)	Handling strength (35%) after:	30 minutes	120 minutes	60 minutes	40 minutes	35 minutes	40 minutes
	Capable of bearing mechanical loads (50% strength) after:	1 hour	24 hours	3 hours	2 hours	1 hour	2 hours
	Final strength (100%) after:	24 h	72 h	48 h	24 h	24 h	24 h
		WEICON Epoxy Adhesives in fully-cured condition					
Average strength of the pure epoxy resin in accordance with DIN 53281-83	Pressure MPa (psi):	9 (1.300)	2 (300)	10 (1.500)	10 (1.500)	9 (1.300)	10 (1.500)
	Tensile MPa (psi):	40 (5.800)	35 (5.100)	40 (5.800)	24 (3.500)	40 (5.800)	24 (3.500)
	Torsion MPa (psi):	58 (8.400)	50 (7.300)	50 (7.300)	58 (8.400)	58 (8.400)	58 (8.400)
	Impact resistance (kJ/m²):	50	25	50	50	50	50
	E-Modul MPa (ksi):	2.000 - 2.500 (300 - 400)	2.000 - 2.500 (300 - 400)	1.700 - 2.000 (200 - 300)	4.000 - 4.500 (600 - 700)	2.000 - 2.500 (300 - 400)	4.000 - 4.500 (600 - 700)
Shore hardness D:	65	55	65	70	65	70	
Average tensile shear strength as per DIN 53283 on:	Steel, sand-blasted N/mm² (psi):	20 (2.900)	17 (2.500)	21 (3.000)	20 (2.900)	19 (2.800)	20 (2.900)
	Aluminium, sand-blasted N/mm² (psi):	19 (2.800)	16 (2.300)	19 (2.800)	19 (2.800)	18 (2.600)	19 (2.800)
	Rigid PVC, roughened N/mm² (psi):	13 (1.900)	11 (1.600)	14 (2.000)	11 (1.600)	12 (1.700)	11 (1.600)
Temperature resistance:		-50°C to +80°C (-58°F to +176°F)	-50°C to +80°C (-58°F to +176°F)	-50°C to +80°C (-58°F to +176°F)	-50°C to +145°C*3 (-58°F to +293°F)*3	-50°C to +80°C (-58°F to +176°F)	-50°C to +145°C*3 (-58°F to +293°F)*3
Linear shrinkage*4:		20 mm/m approx. 2,0 %	20 mm/m approx. 2,0 %	20 mm/m approx. 2,0 %	3 mm/m approx. 0,3 %	20 mm/m approx. 2,0 %	3 mm/m approx. 0,3 %
Thermal conductivity (ASTM D 257):		0,30 W/m·K	0,20 W/m·K	0,25 W/m·K	1,11 W/m·K	0,20 W/m·K	1,11 W/m·K
Electrical resistance (ASTM D257):		10 ¹³ Ω/cm	10 ¹³ Ω/cm	10 ¹³ Ω/cm	10 ¹¹ Ω/cm	10 ¹³ Ω/cm	10 ¹¹ Ω/cm
Dielectric strength (ASTM D 149):		1,0 kV/mm	1,0 kV/mm	1,0 kV/mm	1,2 kV/mm	1,0 kV/mm	1,2 kV/mm
Thermal expansion coefficient (ISO 11359):		50 x 10 ⁻⁶ k ⁻¹	50 x 10 ⁻⁶ k ⁻¹	50 x 10 ⁻⁶ k ⁻¹	30 x 10 ⁻⁵ k ⁻¹	50 x 10 ⁻⁶ k ⁻¹	30 x 10 ⁻⁶ k ⁻¹

*1 For easier workability when ambient temperatures are low, the double cartridges and syringes should be warmed up to room temperature (20°C/+68°F) before application.
*2 These details are dependent on the type and structure of the materials to be bonded, and are only to be taken into account for bonding work. In the case of casting, e.g. of electronic components, the thickness of a layer should not be allowed to exceed 10 mm.
*3 After 20 hours at room temperature (+20°C/+68°F), post-temper at +100°C (+212°F) for about 14 hours.
*4 Measured on a casting 900 x 75 x 10 mm after 7 days stored at +20°C (+68°F).

Adhesives / Sealants
 Technical Sprays
 Technical Liquids
 Assembly Pastes
 Lubricants
 Other



Technical Data:

WEICON Urethanes in non-cured condition

	Urethane 45	Urethane 60	Urethane 80
Composition:	Polyurethane		
Complete packaging sizes:	0,5 kg		
Mixing ratio (weight %): Resin/Hardener	100 : 180	100 : 150	100 : 80
Pot life at +20°C (68°F) min.:	25		
Density of the mixture g/cm ³ :	1,04	1,04	1,00
Viscosity at +25°C (77°F) Resin/Hardener (mPa.s):	5.000 / 500	5.000 / 520	5.000 / 190
Mixture viscosity at +25°C (77°F) (mPa.s):	1.500	1.500	1.350
Cure times at +20°C (+68°F)	Mechanical loads (50% strength) after:	12 hours	
	Final strength (100%) after:	24 hours	

WEICON Urethanes in cured condition

Tensile strength according to ISO 37 MPa (psi):	3,5 (600)	5,0 (800)	8,0 (1.200)
Elongation at break according to ISO 37 (%):	1.450	1.250	600
Resistance to further tearing (kN/m):	7,5	10	15
Shore hardness A:	45	60	80
Colour after curing:	light-beige		
Temperature resistance:	-60°C to +90°C (-76 to +194°F)		

Polyurethane Systems

Urethanes

For making:

- Vibration dampers
- Assembling jigs
- Flexible seals
- Rubber-like prototypes
- Foundry patterns and forms

For repairs on:

- Conveyor belts
- Solid rubber tyres
- Conveyor rollers

For coatings on:

- Rollers
- Centrifuges
- Polishing drums
- Tanks
- Chutes and funnels
- Pumps
- Bulk containers
- Dry and wet mixers
- Cyclones
- Housings
- Loading areas

In addition, WEICON Urethanes are excellently suitable as vibration or insulation protection of machines.

**WEICON Urethanes****Flexible Casting and Coating Resin with high impact strength and abrasion resistance**

WEICON Urethanes are 2-component polyurethanes that cure at room temperature to tough rubber-like materials, remaining flexible at temperatures down to even -60°C (-76°F).

WEICON Urethanes adhere to a variety of materials such as metals, concrete, rubber, wood, fibreglass and many others. They are also suitable as flexible coatings in connection with WEICON Plastic Metal (epoxy) systems.

Due to their low sensitivity to humidity they can also be used for coatings in thin layers and have a remarkably high tensile and tear strength.

**Urethane 45**

Shore hardness A 45

0,5 kg ✓
10514005

Urethane 60

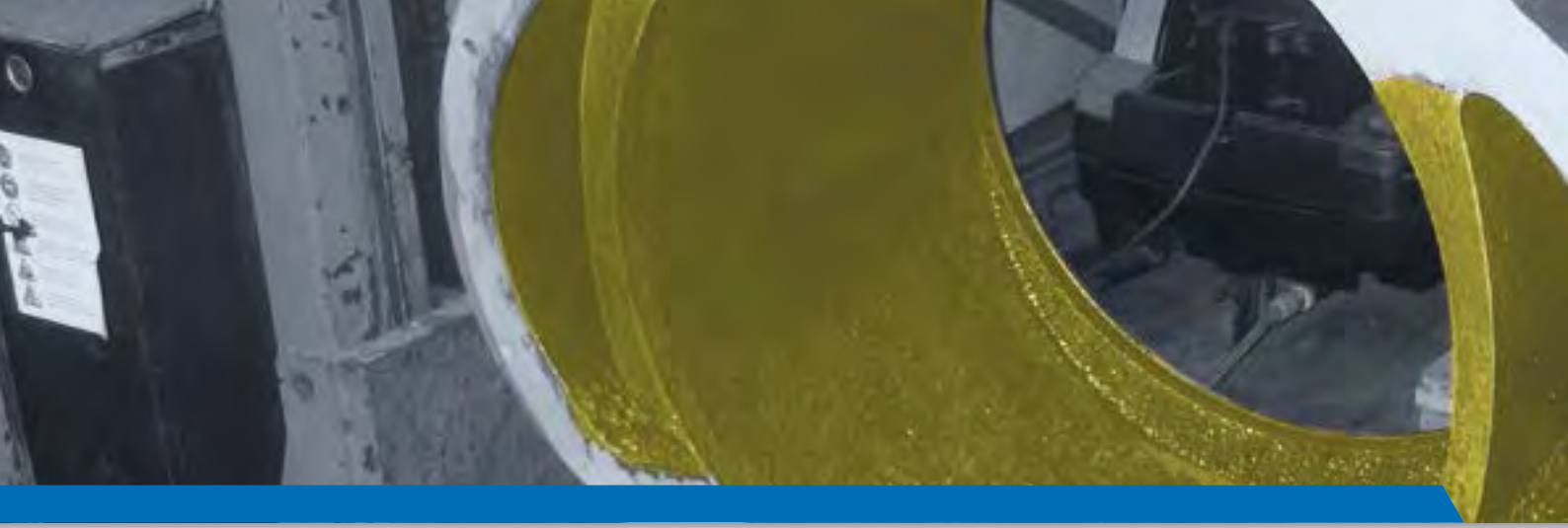
Shore hardness A 60

0,5 kg ✓
10516005

Urethane 80

Shore hardness A 80

0,5 kg ✓
10518005



Chemical resistance of WEICON Urethane after curing

Acetone	-	Methyl ethyl ketone	-
Alcohol	0	Mineral and synthetic motor oil	+
Formic acid (concentrated)	-	20% Sodium hydroxide solution	-
10% Ammonia	0	5% Phosphoric acid	+
Petrol (92 to 100 octane)	-	Phosphoric acid (concentrated)	-
Diesel/heating oil	-	2-Propanol	-
Glycol ether	-	5% Nitric acid	-
> 5% Acetic acid	-	5% Hydrochloric acid	+
Ethanol	-	Salt water/seawater	+
Freon	-	5% Sulphuric acid	o
Antifreeze	+	Silicone oil (concentrated)	-
Gear oil	-	Edible oil/vegetable oil	-
Glycerine (glycol)	+	Toluene	+
Hydraulic oil	0	Naphtha	+
20% Caustic potash solution	+	Water	+
Ketones	-	Water, +90°C	o
Cooling lubricant, water-dilutable	+	W3% Hydrogen peroxide	+
Thinner	-	Paraffin oil	+
Lyes, thinned	+	Xylene	+
Methanol	-	10% Citric acid	+



Flexible suspension of a sealing lip

Consumption

Application thickness (mm)	0,20*	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00
Consumption per m ² (kg)	0,21	0,53	1,05	1,60	2,10	2,65	3,20	3,70	4,20

*Min. layer thickness

Device test plug for pressure testing when repairing vehicle radiators



Repair of clamping pliers



Polyurethane Systems

Urethanes

Pretreatment of the surface

The surfaces must be clean, dry and degreased. Almost every surface soiling like oil, grease, dust and dirt can be removed with WEICON Surface Cleaner or WEICON Sealant and Adhesive Remover (old paint residues). If the surfaces are badly soiled or smooth, the adhesion can be optimized by sand-blasting with suitable grain size or by mechanical roughening.

The use of a primer can improve the adhesion on certain surfaces (for details see table).

Material		Recommended pretreatment
ABS		Surface Cleaner
Aluminium	blank	Surface Cleaner + roughening + Primer M 100
	chromated	Surface Cleaner
	anodized	Surface Cleaner + Primer M 100
	powder-coated	Surface Cleaner + Primer M 100
	base-coated	Surface Cleaner
	lacquered	Primer M 100
EPDM		poor adhesion, even with the use of a primer
GFK	smooth/rough side	Primer M 100
	in strips	Primer M 100
	hand laminate	Primer M 100
Glass	untreated, clear	Primer M 100**
	ceramic-coated	Primer M 100*
Wood	phenol-coated (serigraphy plate)	Surface Cleaner + roughening + Primer M 100
	untreated	cleaning with a moist cloth + Primer S 300
PA (Polyamid)		Primer M 100*
PIR Rigid foam (Polyisocyanurat)		Surface Cleaner
PMMA (acrylic glass)		Primer M 100*
Polywood		roughening + Surface Cleaner
PS	rigid foam	Surface Cleaner
	plates	not recommended for Urethane applications
PUR Rigid foam		Surface Cleaner
PUR Elastomer		Surface Cleaner + Primer M 100
PVC	plates	Surface Cleaner
	rigid foam	Plastic Cleaner
Steel	blank	Surface Cleaner + Primer M 100
	chromated	Surface Cleaner
	foil-coated	not recommended for Urethane applications
	base-coated	Surface Cleaner + Primer M 100
	lacquered	Surface Cleaner + Primer M 100
	powder-coated	Surface Cleaner + Primer M 100
	VA (stainless steel)	Surface Cleaner + roughening + Primer M 100
	galvanized	Surface Cleaner + roughening + Primer M 100

* Preliminary tests required

** protect from UV-light

Primer M 100

Solvent-containing synthetic resin, transparent, Density: 0,8 g/cm³, Consumption: approx. 20-40 ml pro m²



For non-absorbent materials like aluminium, steel, stainless steel, brass, zinc, tinplate, plastics like PA 6.6, GRP, PUR, lacquered surfaces, enamel, ceramic and coated glass.

250 ml
13550125

Primer S 300

Solvent-containing polyurethane, Density: 1,03 g/cm³, Consumption: approx. 200 ml pro m²



For porous and absorbent materials like wood, concrete, stone, etc.

250 ml
13550325

Primer applicator

For application of WEICON Primer

13955050

Urethane colour paste

Special colour paste on the basis of finely dispersed pigments



250 g
10519250



Processing:

The conditions for proper adhesive bonding are clean and dry surfaces (e.g. after cleaning and degreasing with WEICON Surface Cleaner). Best results are achieved if the adhesive surfaces are mechanically roughened.

Some low-energy adhesives, especially PTFE and polyolefins, etc. can only be bonded after special pretreatment of the surfaces, e.g. with fluoridation, low-pressure plasma, corona, flame impingement, etc. The adhesive is applied on one side.



Gluing VA fin plates onto a wooden wall



Bonding fastening elements onto GRP walls in utility vehicles

Polyurethane Systems

PU-90

PU-240

Easy-Mix PU-90 / PU-240

Fast, strong adhesion, reliably

High-strength, fast-curing 2-component structural adhesives based on polyurethane with excellent adhesion on a broad range of materials. The high-viscosity formulation enables application even on vertical surfaces. The 2-component system also provides for fast and controlled curing. This makes the adhesive bonding process virtually independent of layer thickness, humidity and ambient temperature.

The following materials can be bonded among themselves or to each other with a high tensile, shearing and impact strength:

- Fibre composite materials (e.g. EP-GRP, UP-GRP, CFC, SMC and fibreglass)
- Plastics (e.g. PVC, ABS, PMMA, PC and phenol)
- Polyurethane, epoxies and polyester
- Steel, aluminium and stainless steel
- Wood, ceramic, etc.

WEICON Easy-Mix PU-90/PU-240 adhesives are characterised by the following properties:

- Fast initial strength
- Immediate adhesion even on vertical surfaces, no dripping, can be modelled
- High tensile, shear and impact strengths
- Permanently elastic/impact resistant, low shrinkage
- For indoor and outdoor use
- Resistant to weathering and chemicals
- Can be sanded and painted over after approx. 30 minutes
- Neutral to materials
- Temperature resistant from -55°C to +125°C (-67 to +257°F)

WEICON Easy-Mix PU-90/PU-240 adhesives are suitable both for universal use in dynamically loaded adhesive bonds and for applications where a high flexibility is required. They are used in the following industrial sectors:

- Plastics technology
- Mechanical engineering
- Model and mould construction
- Ship and boat building
- Energy systems and electrical engineering
- Metalworking
- Car body and vehicle construction
- Trade fair and exhibition construction





Easy-Mix PU-90

High strength, extremely fast-curing, highly viscous, very short pot life of 90 seconds

WEICON Easy-Mix PU-90 structural adhesive is high-strength, extremely fast-curing, highly viscous, and can be sanded and painted over after approx. 30 minutes. It is weather resistant, resistant to chemicals and temperature resistant from -55°C to $+125^{\circ}\text{C}$ (-67 to $+257^{\circ}\text{F}$) and has a very short pot life of around 90 seconds.

WEICON PU-90 can be used to bond numerous materials such as composite materials, plastics, polyurethane, epoxies, polyester, metals, wood and ceramics to themselves and among each other with high tensile, shear and peel strength.

PU-90 can be used in plastic technology, machine construction, model and mould making, metal construction, ship and boat building, carriage and vehicle construction, trade show and exhibition construction and in many other applications.



50 ml 
10751050

Technical Data

Basis	Polyurethane
Mixing ratio Resin / Hardener	1 : 1
Colour after curing	black
Density of the mixture	1,30 - 1,35 g/cm ³
Pot life at +20°C (+68°F)	90 sec.
Handling strength (35%) after	5 min.
Mechanical loads (50% strength) after	10 min.
Final strength (100%) after	12 h
Adhesive gap bridging	0,1 - 4,0 mm
on Aluminium (0,26 mm)	13 N/mm ² (1.900 psi)
on Steel bright (0,26 mm)	19 N/mm ² (2.800 psi)
on Stainless steel (0,26 mm)	17 N/mm ² (2.500 psi)
Average E-module +20°C (+68°F)	650 - 750 N/mm ² (90 - 110 ksi)
Shore hardness D DIN EN ISO 868	66
Tensile strength ISO 527 max.	21 N/mm ² (3.000 psi)
Tensile Extension ISO 527 max.	35%
Temperature resistance	-55 to +125°C (-67 to +257°F)
Thermoforming resistance	+65°C (+149°F)
TGA decomposition temperature (Onset temp.)	+330°C (+626°F)



Production of plastic sandwich panels.



Fixing plastic decorating panels on veneered wood

Polyurethane Systems

PU-90

PU-240

Easy-Mix PU-240

High strength, extremely fast-curing, highly viscous, very short pot life of 240 seconds



50 ml ✓
10753050

WEICON Easy-Mix PU-240 structural adhesive is high-strength, extremely fast-curing, highly viscous, and can be sanded and painted over after approx. 30 minutes. It is weather resistant, resistant to chemicals and temperature resistant from -55°C to +125°C (-67 to +257°F) and has a very short pot life of around 240 seconds.

PU-240 can be used to bond numerous materials such as composite materials, plastics, polyurethane, epoxides, polyester, metals, wood and ceramics to themselves and among each other with high tensile, shear and peel strength.

WEICON PU-240 can be used in plastic technology, machine construction, model and mould making, metal construction, ship and boat building, carriage and vehicle construction, trade show and exhibition construction and in many other applications.

Technical Data

Basis	Polyurethane
Mixing ratio Resin / Hardener	1 : 1
Colour after curing	black
Density of the mixture	1,30 - 1,35 g/cm ³
Pot life at +20°C (+68°F)	240 sec.
Handling strength (35%) after	10 min.
Mechanical loads (50% strength) after	30 min.
Final strength (100%) after	12 h
Adhesive gap bridging	0,1 - 4,0 mm
on Aluminium (0,26 mm)	14 N/mm ² (2.000 psi)
on Steel bright (0,26 mm)	23 N/mm ² (3.300 psi)
on Stainless steel (0,26 mm)	18 N/mm ² (2.600 psi)
Average E-module +20°C (+68°F)	450 - 550 N/mm ² (70 - 80 ksi)
Shore hardness D DIN EN ISO 868	68
Tensile strength ISO 527 max.	20 N/mm ² (2.900 psi)
Tensile Extension ISO 527 max.	31%
Temperature resistance	-55 to +125°C (-67 to +257°F)
Thermoforming resistance	+65°C (+149°F)
TGA decomposition temperature (Onset temp.)	+336°C (+637°F)



Gluing fastening elements onto phenol resin panels



Gluing an aluminium pipe onto a plastic front panel



2-Komponenten
No-Mix
2-component

RK-1300 / RK-1500 Construction Adhesives

High strength, impact resistant

WEICON RK-1300/1500 are 2-component systems based on methacrylate, which cure fast at room temperature. Both systems are processed in the “no-mix” procedure, i.e. a mix of both components (adhesive and activator) is not necessary. Polymerization starts as soon as the adhesive- and activator-wetted components are joined together.

RK-1300/1500 allow high-strength bonding of different materials:

- Metals (also coated), such as steel, aluminium, copper, zinc, alloys, as well as ferrites (ferromagnetic material)
- Plastics*, such as ABS, polystyrene, hard PVC, polycarbonate, polyphenylene oxide, polyester moulding compounds
- Fibre composite materials (GRP, CRP, fibreglass etc.)
- Wood and cellulose materials (e.g. MDF)
- Glass, ceramics and stone

*Polyamide, Teflon® and polyolefin etc. only after special surface treatment, for example using fluoridation, low-pressure plasma, corona, flame impingement etc.

Compared to other joining/fixing procedures WEICON RK-1300/1500 have many advantages:

- Conventional fasteners are no longer necessary.
- Unlike in the case of welding and soldering, there are no changes in the material surfaces
- Tensioning of the materials caused by thermal or mechanical stress does not occur
- The specific material characteristics of different materials remain the same
- By using newly developed, thinner and lighter materials, a simpler and more cost-efficient construction can often be realized, since these materials can only be joined with adhesives
- When cured, the adhesive automatically forms a leak-proof coating, which prevents fretting corrosion
- When joining different metals no contact corrosion is formed

WEICON RK-1300/1500 feature special product-specific characteristics:

- Processing in the “no-mix” procedure
- Quick and high initial bonding strength
- Residual elasticity and impact resistance
- Applicable at a large range of temperatures
- Ageing resistant

As a result, there are numerous areas of application, in particular during assembly and in industrial processing.

Due to the “no-mix” procedure and the quick, high initial bonding strength, WEICON RK Construction Adhesives are especially suited for manufacturing processes with staggered assembly and positioning processes and high cycle times during serial production.



Illumination bonding (aluminium / glass)



Bonding of plastic plates (mould construction)

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Structural Acrylic Adhesives

RK-1300

RK-1500

Pre-treatment of surfaces

To ensure perfect bonding, the surfaces to be joined must be clean and dry (to clean and degrease use WEICON Surface Cleaner).

The highest strength values can be achieved through additional pre-treatment of the surfaces, such as roughening using blasting or abrasive agents. Several plastics, in particular polyamide, PTFE, polyolefins etc. are only to be bonded after special surface treatment, for example using fluoridation, low-pressure plasma, corona, flame impingement etc.

Processing of the RK Activator

The RK Activator is applied, depending on the size of the bonding gap, on either one side or both sides of the surfaces to be bonded (brush, spray, dip). In case of bond lines with a max. of 0.4 mm in width, the activator only needs to be applied on one side, for bond lines of up to a max. of 0.8 mm in width and/or rough, porous or passive surfaces (chrome, nickel etc) the activator must be applied on both sides.

For smooth plastic and metal surfaces, approx. 30 g/m² is necessary, for rough and porous surfaces up to 150 g/m² of activator may be necessary. The evaporation time at room temperature (+20°C/+68°F) is at least 5 minutes.

A significant advantage to other adhesive systems is that the coated components can be stored up to 30 days at room temperature (+20°C/+68°F) without losing effectiveness.

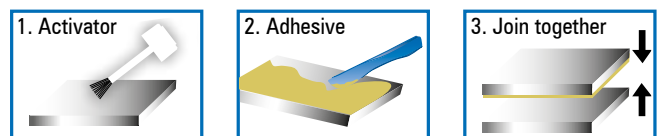
Storage of RK-Activator

WEICON RK-Activator has a shelf life of 6 months if stored dry and at a constant room temperature of +20°C, whereas this storability can be extended to up to 24 months when stored at temperatures between +1°C and +7°C. This applies for sealed original packaging which is not subjected to direct or indirect exposure to sunlight. On exceedance of the storage temperature of over +40°C and high air humidity, the storage stability is reduced.



100 ml ✓
10562100

1 L ✓
10562901

**Processing of the RK Adhesive**

The adhesive is applied only on one side and normally on the surface which is not coated with activator. The width of the bond line can be up to 0.80 mm (only if the activator is applied on both sides). Bond lines of 0.15 mm to 0.25 mm in width always have the highest tensile shear strength.

Processing temperature

The processing should take place at room temperature (approx. +20°C/+68°F). Higher temperatures, e.g. +40°C (+104°F) shorten the positioning and curing times by approx. 30%, lower temperatures of approx. +10°C (+50°F) increase the respective times by approx. 50% and up to +5°C (+41°F) almost no reaction occurs any more.

Physiological properties / health and safety at work

WEICON RK Construction Adhesives, when properly handled and completely cured, are toxicologically essentially harmless. When using these adhesives, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.de) must be observed.

Storage

WEICON RK Construction Adhesives have a shelf life of at least 12 months if stored in a dry room at a constant temperature of approx. +20°C. At temperatures between +1°C (+34°F) and +7°C (+45°F) the shelf life can be extended up to 24 months. This applies for closed original units which have not been directly or indirectly exposed to sunrays. In case of storage temperatures exceeding +40°C (+104°F) and high humidity, the shelf-life is shortened to 6 months.





2-Komponenten
No-Mix
2-component

Technical Data

WEICON RK-1300/1500 in non-cured condition

		RK-1300	RK-1500
Basis:		Methyl methacrylate	
Properties:		pasty	liquid
Viscosity at + 20°C (+68°F):	Adhesive:	21.000 mPa·s	4.500 mPa·s
	Activator:	very thin liquid	
Specific weight:	Adhesive:	1,20 g/cm ³	1,00 g/cm ³
	Activator:	0,87 g/cm ³	
Colour:	Adhesive:	beige, opaque	yellow, transparent
	Activator:	Colourless, transparent	
Consumption depending on surface structure:	Adhesive:	180 - 300 g/m ²	
	Activator:	30 - 150 g/m ²	
Evaporation time of the activator at +20°C (+68°F):		5 minutes	
Effectiveness of the Activator after application at +20°C (+68°F):		max. 30 days	
Processing temperature:		+10 to +30°C (+50 to +86°F)	
Curing temperature:		+6 to +40°C (+43 to +104°F)	
Positioning time of the parts coated with Activator and Adhesive at +20°C (+68°F):		1 - 2 minutes	
Gap covering power: (Bond lines of 0.15 mm to 0.25 mm in width have the highest strength)		max. 0.40 mm (Activator application on one side*1)	
		max. 0.80 mm (Activator application on both sides*1)	
Cure time at +20°C (+68°F):*2	Handling strength (35%) after:	6 minutes	5 minutes
	Mechanical durability (50% stability) after:	9 minutes	8 minutes
	Final strength (100%) after:	24 hours	24 hours

WEICON RK RK-1300/1500 in cured condition

Average tensile shear strength after 7 days at +20°C (+68°F) and one-sided Activator application in accordance with DIN 53281-83:	Aluminium, sand-blasted:	25 N/mm ² (3.600 psi)	26 N/mm ² (3.800 psi)
	Steel, sand-blasted:	21 N/mm ² (3.000 psi)	25 N/mm ² (3.600 psi)
	Steel, galvanized:	6 N/mm ² (900 psi)	4 N/mm ² (600 psi)
	Stainless steel, sand-blasted:	26 N/mm ² (3.800 psi)	25 N/mm ² (3.600 psi)
	Brass, sand-blasted:	25 N/mm ² (3.600 psi)	26 N/mm ² (3.800 psi)
	Copper, sand-blasted:	26 N/mm ² (3.800 psi)	19 N/mm ² (2.800 psi)
	Polycarbonate, roughened:	5 N/mm ² (700 psi)	8 N/mm ² (1.200 psi)
	ABS, roughened:	6 N/mm ² (900 psi)	6 N/mm ² (900 psi)
	Hard PVC, roughened:	7 N/mm ² (1.000 psi)	11 N/mm ² (1.600 psi)
	Polyamide 6.6, roughened:	2 N/mm ² (300 psi)	3 N/mm ² (400 psi)
GRP (polyester), roughened:	8 N/mm ² (1.200 psi)	7 N/mm ² (1.000 psi)	
GRP (epoxy resin), roughened:	16 N/mm ² (2.300 psi)	20 N/mm ² (2.900 psi)	
Temperature resistance:	-50°C to +130°C (-58 to +266°F), briefly (30 minutes) to +180°C (+356°F)		
Peel resistance on aluminium:	6 N/mm		
Linear thermal expansion coefficient:	70 x 10 ⁻⁶ K ⁻¹	80 x 10 ⁻⁶ K ⁻¹	
Thermal conductivity:	0,2 W/m·K		
Electrical resistance:	10 ¹⁵ Ω/cm		
Dielectric strength:	10 kV/mm		

*1 This information is dependent on the type of materials to be bonded and their respective properties. In case of porous materials or passive surfaces, such as chrome, nickel, etc. the Activator should be applied on both sides. (Bond lines of 0.15 mm to 0.25 mm in width have the highest stability).

*2 High temperatures, e.g. +40°C (+104°F) shorten the positioning and curing times by approx. 30%. Low temperatures of approx. +10°C (+50°F) increase the respective times by approx. 50% and at approx. +5°C (+41°F) almost no reaction occurs.

Structural Acrylic Adhesives

RK-1300 RK-1500



RK-1300

Pasty, strong, fast-curing

WEICON RK-1300 Structural Adhesive has high impact, peel, and shear strength.

The system consists of adhesive and activator which can be used on many different materials in the simple No-Mix procedure. WEICON RK-1300 is particularly suited for the bonding of metals and hard plastics.

WEICON RK-1300 can be used in mechanical and apparatus engineering, vehicle construction, tool and mould making, the building and furniture industry and in many other industrial applications.

60 g* ¹ ✓	330 g* ² ✓	1,0 kg* ¹ ✓	6,0 kg* ² ✓
10560060	10560330	10560800	10561906

*¹ Complete package consisting of adhesive and activator
*² without activator



RK-1500

Liquid, strong, fast-curing

WEICON RK-1500 has high impact, peel, and shear strength.

The system consists of adhesive and activator which can be used on many different materials in the simple No-Mix procedure. Due to its low viscosity, WEICON RK-1500 is particularly well suited for processing on large bonding surfaces.

WEICON RK-1500 can be used in mechanical and apparatus engineering, vehicle construction, tool and mould making, the building and furniture industry and in many other industrial applications.

60 g* ¹ ✓	310 g* ² ✓	1,0 kg* ¹ ✓	6,0 kg* ² ✓
10563860	10563330	10563800	10563906

*¹ Complete package consisting of adhesive and activator
*² without activator

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

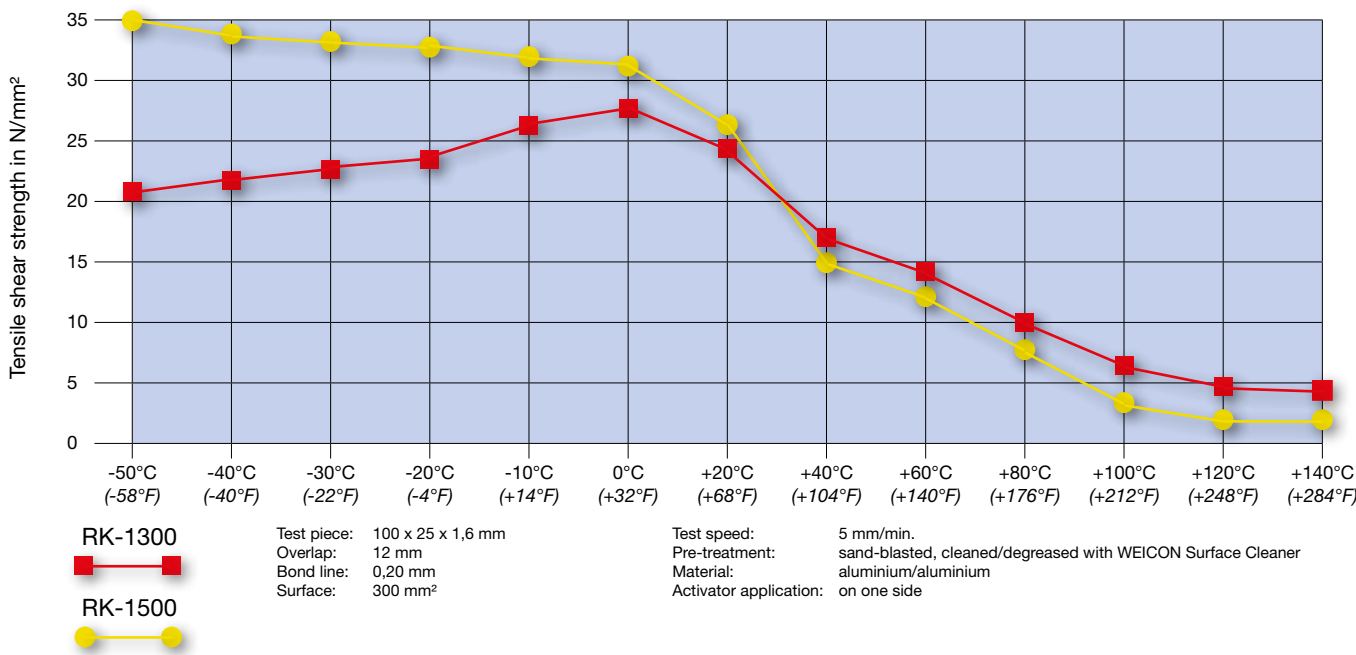
Lubricants

Other

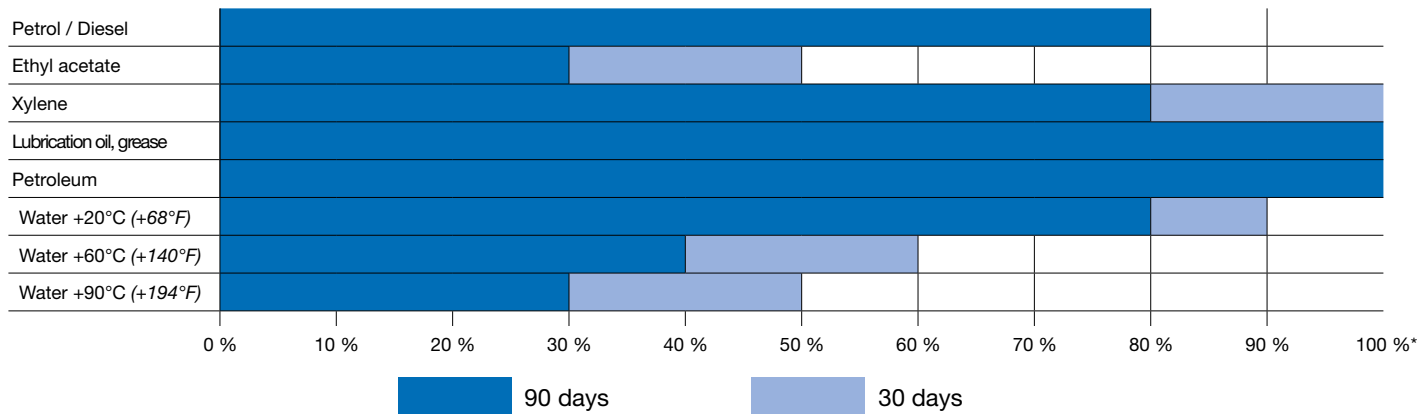


2-Komponenten
No-Mix
 2-component

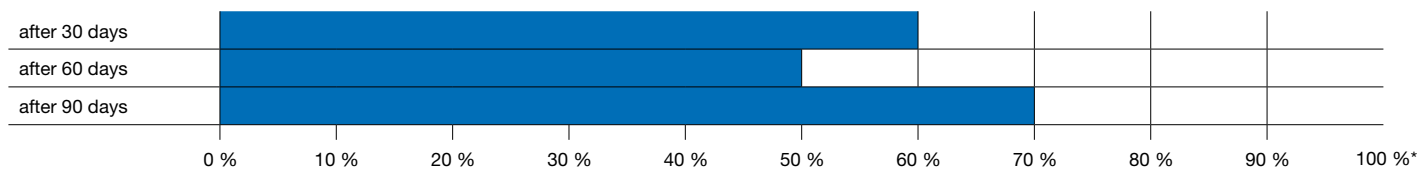
Tensile shear strength according to DIN 53283 depending on the test temperature



Tensile shear strength in % after storage in different media



Tensile shear strength in % after storage in tropical climate in accordance with DIN 50015 (+40°C/+140°F and 92% humidity)



* Average tensile strength after 7 days at +20°C (+68°F) and one-sided Activator application in accordance with the stability.

Adhesives / Sealants
 Technical Sprays
 Technical Liquids
 Assembly Pastes
 Lubricants
 Other

Structural Acrylic Adhesives

RK-1300

RK-1500

Chemical resistance after curing

Acetone	+	Isopropyl acetate	+
Acidic vapours	+	Isopropyl alcohol	+
Alcohol	+	Isopropyl ether	+
Aliphatic hydrocarbons, (petroleum derivative)	+	Kerosene	+
Alkaline vapours	+	Ketone	+
Ammonia, ammonium chloride	+	Lubricating oils and grease	+
Ammonium chloride	+	Mercury	+
Aromatic hydrocarbons (benzoyl, methylbenzene, xylene)	0	Methanol (methyl alcohol)	+
Benzoyl	0	Methyl benzoyl	+
Benzoyl acid	+	Methyl chloride	0
Bilge medium (bilge water)	+	Methyl ethyl ketone	+
Brake fluid	+	Methyl isobutyl ketone, isopropyl acetone	+
Bromide solution	0	Methylene dichloride	+
Butyl alcohol (Isobutanol)	+	Mineral oil	+
Calcium chloride (sea salt)	+	Mineral turpentine	+
Calcium sulphate	+	Nitric acid 5%	+
Calcium sulphite	+	Nitric acid, fuming	-
Chlorinated hydrocarbon	+	Oxygen	-
Chlorinated salt water (swimming pool concentrate)	+	Ozone	-
Chlorinated solvent (dichloromethane)	-	Paraffin oil, kerosene	+
Chlorinated water (swimming pool concentration)	+	Perchlormethylmercaptan	+
Chlorine alcohol	+	Persulfuric acid 5%	+
Chlorine bleach	-	Petrol	+
Chlorine gas, liquid and dry	-	Phenol (Carbolic acid)	+
Chlorine sulphuric acid	-	Phenol resin	+
Chlorine, liquid and dry	-	Phosphoric acid 5%	+
Chloroform	+	Phthalic acid (benzene dicarboxylic acid)	+
Chromic acid 5%	+	Polyphosphoric acid 5%	+
Cooling lubricants	+	Potassium carbonate (potash)	+
Corrosive ammonium, ammonium hydroxide	0	Propyl alcohol	+
Cylinder oil	+	Selenium chloride	+
Dichloroethylene ether	+	Silicon oils	+
Epichlorohydrin	+	Sulphur dioxide, wet and dry	+
Freon	0	Sulphur trioxide gas	-
Fuel for jet or turbine engines	+	Sulphuric acid	0
Glycol, glycine	+	Sulphuric acid, fuming	-
Heating oil, diesel	+	Tannic acid (gallotannic acid)	0
Heptane	+	Toluene (methylbenzene)	0
Hydrochloric acid (muriatic acid)	0	Toluene sulphuric acid	0
Hydrocyanic acid, prussic acid 5%	+	Trichloroethylene	+
Hydrogen bromide 5%	+	Turpentine, Turpentine oil	+
Hydrogen chloride	+	Waste water, excrements	+
Hydrogen fluoride (hydrofluoric acid)	-	Water	+
Hydrogen peroxide	0	Water, boiling	0
Hydrogen sulphide, wet and dry	+	Water, distilled	+
Isobutyl alcohol (isobutene)	+	Xylene (dimethylbenzoyl)	0

+ = resistant

0 = resistant for a limited time

- = not resistant

Storage of the test pieces was at +20°C (+68°F) chemical temperature.



Easy-Mix RK-7000 / RK-7100 / RK-7200

High strength, residual elasticity, process-safe

High-strength, fast-curing structural adhesives on the basis of MMA (methyl methacrylate) with excellent adhesion on e.g. fibre composite materials, many plastics, metals and many other materials.

Thanks to the modern Easy-Mix mixing and dosing system the adhesives can be cleanly and accurately automatically dosed, mixed and applied in only one working operation. In this way, a uniform quality and process assurance is guaranteed in a production series. Due to its high viscosity the adhesive can also be applied on vertical surfaces.

The following materials can be bonded to themselves and among each other with high tensile, shear and peel strength:

- Plastics (e.g. PVC, ABS, PMMA, fibre glass, phenol)
- Polyurethane, epoxies
- Steel, aluminium, stainless steel
- Wood, ceramics and many others

WEICON Easy-Mix Structural Adhesives feature special productspecific characteristics:

- High tensile, shear and impact strengths
- Rapid strength build-up
- For indoor and outdoor use
- Resistant to weather conditions and many chemicals
- Grindable and overpaintable
- Temperature resistant from -55°C to $+125^{\circ}\text{C}$ (-67 to $+257^{\circ}\text{F}$)

WEICON Easy-Mix Structural Adhesives can be applied universally and are equally suited for below listed areas of application:

- Plastics engineering
- Machine building
- Model and mould construction
- Metal construction
- Electrical engineering
- Car body and vehicle construction
- Trade fair and exhibition



Processing:

The prerequisite for perfect adhesion are clean and dry surfaces (e.g. cleaning and degreasing with WEICON Surface Cleaner).

The best results are achieved when the surfaces to be bonded are mechanically roughened. Some low energy plastics, especially PTFE and polyolefines etc, can only be bonded after special surface treatment, e.g. fluorination, low-pressure plasma, corona, flame treatment or otherwise.

WEICON Easy-Mix System: Resin and hardener are cleanly and accurately automatically mixed and dosed in only one working operation. The adhesive is applied only on one side.

Double syringe 24 g (only type RK-7000): Resin and hardener are delivered automatically in the right proportions. They are afterwards applied by mixing both components.





Structural Acrylic Adhesives

RK-7000 / RK-7100

RK-7200

Easy-Mix RK-7000

Highly viscous, high strength, impact resistant, residual elasticity

RK-7000 can be used to bond numerous materials such as plastics, metals, wood and ceramics to themselves and among each other with high tensile, shear and peel strength.

WEICON RK-7000 can be used universally and, for example, in plastics technology, metal construction, car body and vehicle construction, machine construction, electrical engineering, wood processing and in trade show and exhibition construction.



24 ml

- 24 ml ✓
10565024
- 50 ml ✓
10565050

Double cartridge

Technical Data

Basis	Methyl methacrylate
Mixing ratio Resin / Hardener	1 : 1
Colour after curing	cream white, milky
Density of the mixture	0,98 - 1,02 g/cm ³
Pot life at +20°C (+68°F)	approx. 15 min.
Viscosity of the mixture	40.000 - 60.000 mPa·s
Handling strength (35%) after	approx. 40 min.
Mechanical loads (50% strength) after	approx. 60 min.
Final strength (100%) after	approx. 12 h
Adhesive gap bridging	0,1 - 5,0 mm
Average strength (+20°C/+68°F) acc. to DIN 53281-83	
on FVK (3 mm)	GRP 9 N/mm ² (1.300 psi)
on plastics (0,76 mm)	PVC 17 N/mm ² (2.500 psi)
on Aluminium (0,26 mm)	21 N/mm ² (3.000 psi)
on Steel bright (0,26 mm)	19 N/mm ² (2.800 psi)
on Stainless steel (0,26 mm)	17 N/mm ² (2.500 psi)
on PMMA (0,76 mm)	18 N/mm ² (2.600 psi)
Average E-module +20°C (+68°F)	1.400 - 1.700 N/mm ² (200 - 250 ksi)
Shore hardness D DIN EN ISO 868	70
Tensile strength ISO 527 max.	20 N/mm ² (2.900 psi)
Tensile Extension ISO 527 max.	35%
Temperature resistance	-55 to +125°C (-67 to +257°F)



Easy-Mix RK-7100

Highly viscous, high strength, impact resistant, residual elasticity, pot life of around 5 minutes

WEICON Easy-Mix RK-7100 can be used to bond numerous materials such as plastics, metals, wood and ceramics to themselves and among each other with high tensile, shear and peel strength.

WEICON Easy-Mix RK-7100 can be used universally and, for example, in plastics technology, metal construction, car body and vehicle construction, machine construction, electrical engineering, model and mould making and in trade show and exhibition construction.



50 ml ✓
10566050

Technical Data

Basis	Methyl methacrylate
Mixing ratio Resin / Hardener	1 : 1
Colour after curing	cream white, milky
Density of the mixture	0,98 - 1,02 g/cm ³
Pot life at +20°C (+68°F)	approx. 5 min.
Viscosity of the mixture	40.000 - 60.000 mPa·s
Handling strength (35%) after	approx. 25 min.
Mechanical loads (50% strength) after	approx. 60 min
Final strength (100%) after	approx. 12 h
Adhesive gap bridging	0,1 - 5,0 mm
Average strength (+20°C/+68°F) acc. to DIN 53281-83	20 - 25
on FVK (3 mm)	GRP 8 N/mm ² (1.200 psi)
on plastics (0,76 mm)	PVC 21 N/mm ² (3.000 psi)
on Aluminium (0,26 mm)	24 N/mm ² (3.500 psi)
on Steel bright (0,26 mm)	23 N/mm ² (3.300 psi)
on Stainless steel (0,26 mm)	15 N/mm ² (2.200 psi)
on PMMA (0,76 mm)	23 N/mm ² (3.300 psi)
Average E-module +20°C (+68°F)	1.300 - 1.700 N/mm ² (188 - 246 psi)
Shore hardness D DIN EN ISO 868	75
Tensile strength ISO 527 max.	22 N/mm ² (3.200 psi)
Tensile Extension ISO 527 max.	30%
Temperature resistance	-55 to +125°C (-67 to +257°F)



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Structural Acrylic Adhesives

RK-7000 / RK-7100

RK-7200

Easy-Mix RK-7200

Transparent, high strength, impact resistant, residual elasticity

WEICON Easy-Mix RK-7200 is a high strength, solvent-free and fast-curing structural adhesive. It is based on MMA (methyl methacrylate) and has an excellent adhesion on many materials.

Because of the transparent curing, RK-7200 is particularly suitable for transparent joints where the bonding seam should not be visible. This adhesive can also be used for structural bondings where a coloured adhesive would not fit optically to the construction parts.

Thus, transparent plastics like e. g. acrylic glass (PMMA) and other materials can be bonded in a clean and appealing way.



50 ml ✓
10564050

Technical Data

Basis	Methyl methacrylate
Mixing ratio Resin / Hardener	1 : 1
Colour after curing	transparent
Density of the mixture	1,2 g/cm ³
Pot life at +20°C (+68°F)	approx. 1-2 Min.
Viscosity of the mixture	5.000 - 8.000 mPa·s
Handling strength (35%) after	approx. 8 min.
Mechanical loads (50% strength) after	approx. 120 min
Final strength (100%) after	approx. 6 h
Adhesive gap bridging	0,1 - 2,0 mm
Average strength (+20°C/+68°F) acc. to DIN 53281-83	
on FVK (GFK-EP)	17 N/mm ² (2.400 psi)
on plastics (PVC)	4 N/mm ² (580 psi)
on Aluminium (0,26 mm)	18 N/mm ² (2.600 psi)
on Steel bright (0,26 mm)	20 N/mm ² (2.900 psi)
on Stainless steel (0,26 mm)	18 N/mm ² (2.600 psi)
on Acryl (PMMA)	12 N/mm ² (1.740 psi)
Average E-module +20°C (+68°F)	400 - 700 N/mm ² (58 - 101 ksi)
Shore hardness D DIN EN ISO 868	45 - 55 D
Tensile strength ISO 527 max.	8,5 N/mm ² (1.200 psi)
Tensile Extension ISO 527 max.	23%
Temperature resistance	-40 to +120°C (-40 to +248°F)



Bonding of a polycarbonate cube on glass.



Bonding of a polycarbonate letter on a brushed stainless steel plate.



Easy-Mix PE-PP 45

Fast, high strength, process-safe

WEICON Easy-Mix PE-PP 45 is a two-component construction adhesive on the basis of methyl acrylate. It is in particular suitable for structural, high-strength bonding of low energy plastics like PE, PP and TPE.

In addition, WEICON Easy-Mix PE-PP 45 can be used as „universal adhesive“ for plastics like:

- Rigid PVC (polyvinyl chloride)
- PA (polyamide)
- PC (polycarbonate)
- ABS (acrylonitrile-butadiene styrene)
- PMMA (polymethyl methacrylate)
- Fibre reinforced materials (GRP, CRP, fibre glass etc.) and many others.



38 ml ✓
10660038

yellowish, transparent

35 ml ✓
10661035
black



Plastics like PE and PP are increasingly used in almost all industrial areas nowadays due to their specific properties, like plasticity, elasticity, breaking strength, and temperature, thermoforming, and chemical resistance.

For the adhesion of these plastics, the surfaces have had to be extensively pretreated until now, for example:

- Mechanically (grinding, sandblasting, etc.)
- Chemically (fluorination)
- Physically (flame treatment, corona, plasma)

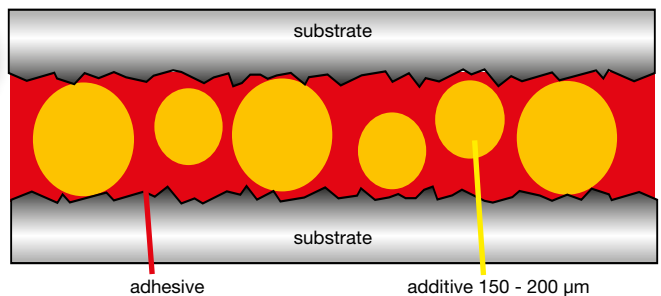
With the new adhesive WEICON Easy-Mix PE-PP 45, these pretreatments are no longer required. The „primer integrated“ into the adhesive activates the surfaces and makes high-strength bonds possible.

WEICON Easy-Mix PE-PP 45 can be used for individual applications as well as for small-lot fabrication or industrial series production, e.g. bonding and repair of small appliances, signs and displays, loudspeaker parts, battery housings, plastic tanks and many other plastic parts..

WEICON Easy-Mix PE-PP 45 features the following characteristics:

- No pre-treatment of the parts to be bonded („integrated primer“)
- Short pot life and processing time
- Fast development of strength
- High final strength
- Curing with residual elasticity
- Aging resistant
- Chemical resistant
- Controlled bonding gap of min. 0.15-0.20 mm through special additives (glass beads)
- Pasty, stable

Graphical representation of a bonding gap with WEICON Easy-Mix PE-PP



Thanks to the modern mixing and dosing system WEICON Easy-Mix, the adhesive can be cleanly and accurately automatically dosed, mixed and applied in only one working step.



Switch housing made of flame-retarding ABS

Structural Acrylic Adhesives

PE-PP 45

Product advantages:

- Ready for use
- Dosing, mixing and application in just one working operation
- Tedious mixing by hand is no longer necessary, so that no mixing and dosing mistakes are possible
- Speedy in application, thus faster cycle times in series production are possible
- Economical in use, due to minimal material wastage



Hand Dispenser PE-PP
10663038

Mixing Nozzles PE-PP
10660002

Special Piston
10663110

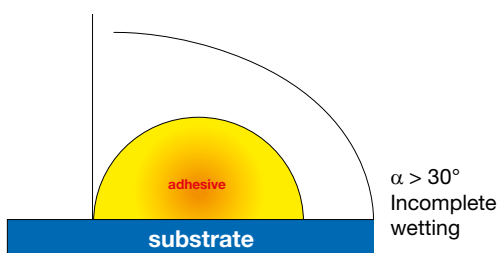
For retooling the Hand Dispenser Easy-MixD 50 to Easy-Mix PE-PP 45

Plastic adhesive bonds with WEICON Easy-Mix PE-PP 45

Difficulties in the adhesion of plastics arise from a low surface tension (low-energy) and the resulting incomplete wetting of the adhesive surface.

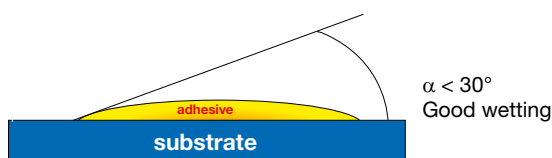
Incomplete wetting:

- Low surface tension of the material
- Low adhesive power



Good wetting:

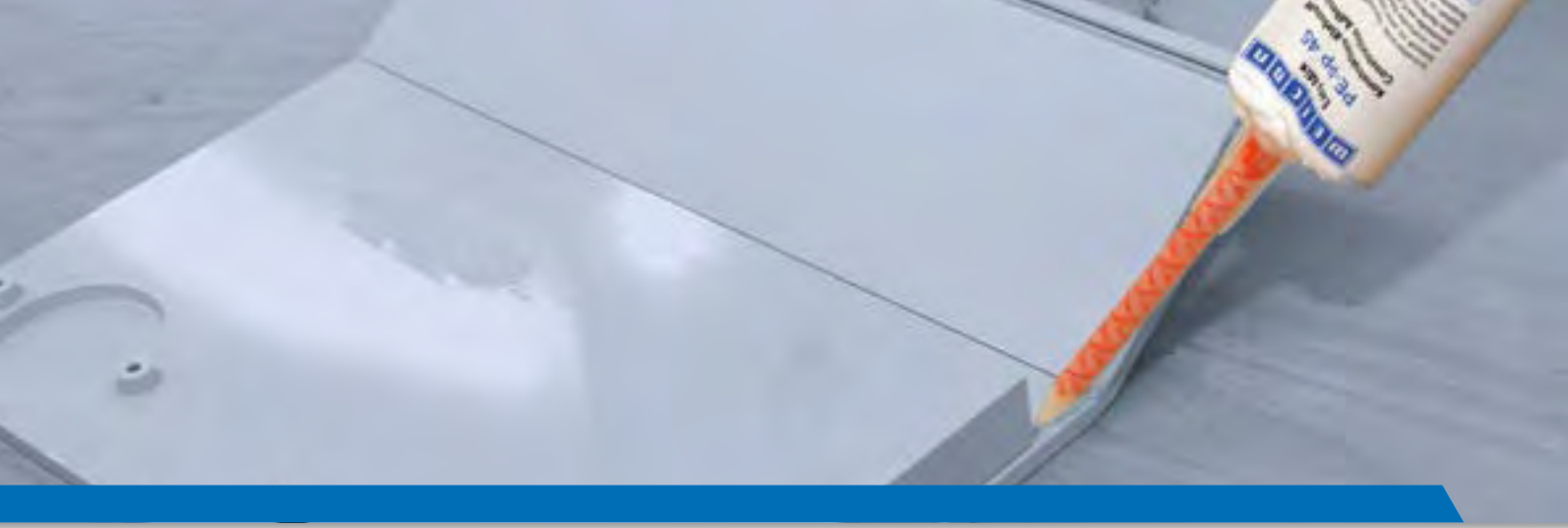
- High surface tension of the material
- High adhesive power



WEICON Easy-Mix PE-PP 45 increases the surface tension of low-energy plastics through a chemical interaction between the plastic and the adhesive („integrated primer“). PE and PP can thus be adhered at strengths up to material breakage.

Some materials and the values of their surface tension are listed in the following table. The lower the surface tension, the more difficult it is to adhere the materials.

Material	Abbreviation	Surface Tension mN/m
Low surface tension (difficult to bond)		
Polypropylene	PP	29
Polyethylene	PE, HDPE	31
Polyester	PBT	32
Polyamide	PA	<36
Acrylic	PMMA	<36
Epoxy resin	EP	<36
Polyacetal	POM	<36
High surface tension (easy to bond)		
Polystyrene	PS	38
Polyvinylchloride	PVC	39
Polyester	PET	41
Phenolic resin	PF	42
Polyurethane	PUR	43
Polycarbonate	PC	46
Water	H ₂ O	73
Aluminium	Al	840
Copper	Cu	1100
Iron	Fe	2550



Adhesives / Sealants

Technical Sprays

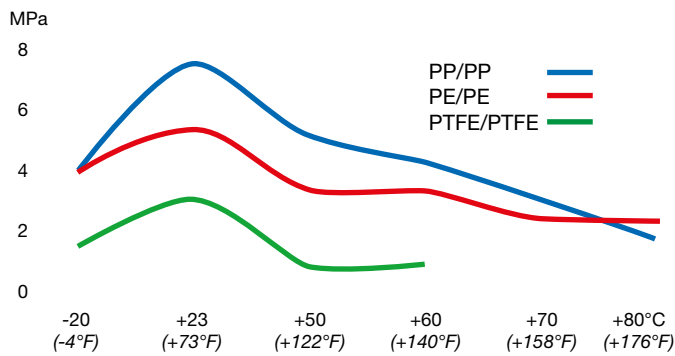
Technical Liquids

Assembly Pastes

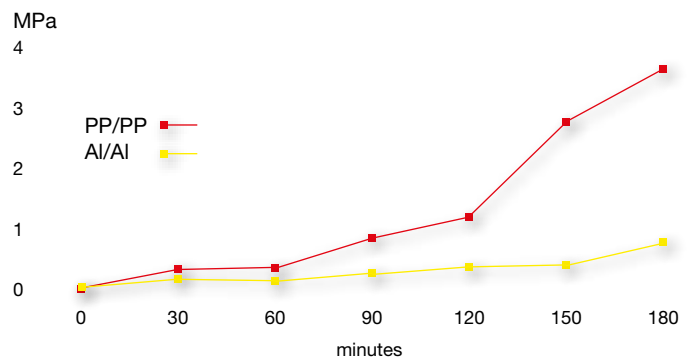
Lubricants

Other

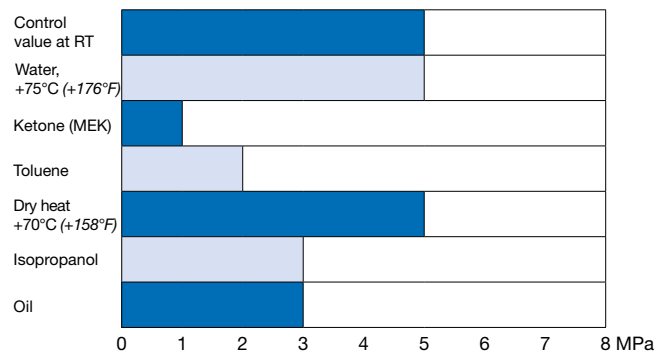
Tensile shear strength of WEICON Easy-Mix PE-PP 45 compliant with DIN 53283 in temperature curve



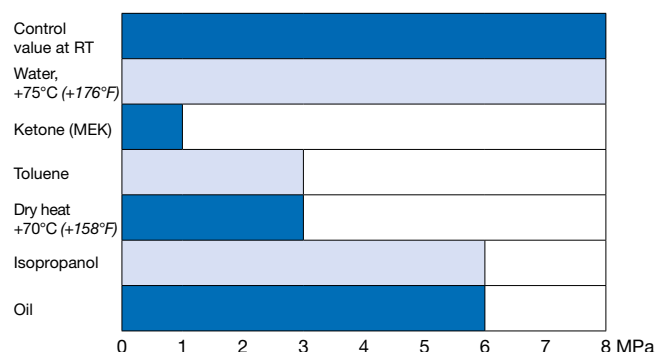
Strength development of WEICON Easy-Mix PE-PP 45 on tensile shear test samples compliant with DIN 53283



Ageing resistance of PE adhesive bonds
after storage in various media
(14 days at room temperature)



Ageing resistance of PP adhesive bonds
after storage in various media
(14 days at room temperature)



Specification of the test specimen:

Standard: DIN 53283
Adhesive surface: 12.5 mm x 25 mm
Adhesive thickness: 0.2 mm

Curing: 7 days at room temperature
Testing speed: 10 mm/min

Structural Acrylic Adhesives

PE-PP 45

Technical Data

WEICON Easy-Mix PE-PP 45 in liquid condition		
Basis:	Methyl methacrylate	
Condition/Nature:	pasty	
Supplied in:	double cartridge	
Content:	38 ml	35 ml
Mixing proportion by volume resin / hardener:	10 : 1	
Pot life with 10 ml material and at +20°C (+68°F):	2 - 3 minutes	
Density of the mixture:	1,07 g/cm ³	
Viscosity of the mixture at + 20°C (+68°F) Brookfield:	45.000 mPa·s	
Temperature:	Processing, optimal:	+20°C to +25°C (+68 to +77°F)
	Curing:	+15°C to +70°C (+59 to +158°F)
Colour before curing:	colourless, translucent	black
Bonding gap:	Processing, optimum:	0,2 - 0,3 mm
	Curing:	1,0 mm
Cure time at + 20°C (+68°F)	Handling strength (35% strength) after:	2-3 hours (PP-PP) 6 hours (Alu-Alu)
	Mechanical loads (50% strength) after:	6 hours (PP-PP) 24 hours (Alu-Alu)
	Final strength (100% strength) after:	24 hours (PP-PP)
		72 hours (Alu-Alu)
WEICON Easy-Mix PE-PP 45 in cured condition		
Average strength of the pure MMA adhesive in accordance with DIN 53281-83	Shore hardness D:	55
	Tensile strength:	13 MPa.S
	Max. expansion:	5,3 %
Colour after curing:	yellowish, transparent	black
Average tensile shear strength as per DIN 53283 on	ABS:	10,5 N/mm ² (1.500 psi)
	GFK:	17,0 N/mm ² (2.470 psi)
	GFK Gelcoat:	10,1 N/mm ² (1.470 psi)
	PA 6.6 (30% glass fibre particles):	5,7 N/mm ² (830 psi)
	PC:	5,9 N/mm ² (860 psi)
	PE HD (high density):	7,4 N/mm ² (1.070 psi)
	PE LD (low density):	2,8 N/mm ² (410 psi)
	PE UHMW (ultrahigh molecular):	5,2 N/mm ² (750 psi)
	PMMA:	6,6 N/mm ² (960 psi)
	PP:	7,6 N/mm ² (1.100 psi)
	PS:	5,3 N/mm ² (770 psi)
	PVC:	14,1 N/mm ² (2.050 psi)
	PTFE:	- N/mm ²
	Aluminium:	15,7 N/mm ² (2.280 psi)
	Glass:	4,5 N/mm ² (650 psi)
	Copper:	15,7 N/mm ² (2.280 psi)
Bright steel:	17,2 N/mm ² (2.490 psi)	
Steel, slightly oiled:	14,8 N/mm ² (2.150 psi)	
VA steel:	15,9 N/mm ² (2.300 psi)	
Peel strength at +20°C (+68°F) (HDPE):	2,9 N/mm	
Temperature resistance:	-50°C to +80°C (-58 to +176°F)	
Thermoforming resistance:	+35°C (+95°F)	
Coefficient of thermal expansion:	Below T _g (<+35°C/+95°F):	125 x 10 ⁻⁶ /K
	Above T _g (>+35°C/+95°F):	170 x 10 ⁻⁶ /K

Adhesives / Sealants

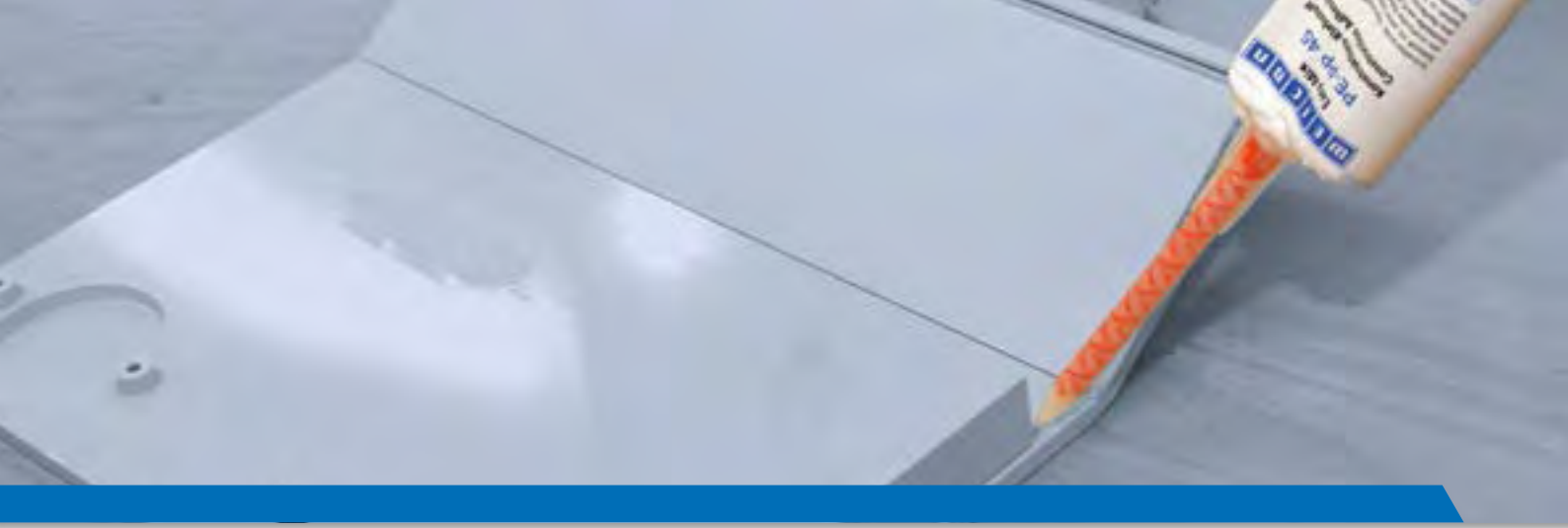
Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Physiological properties / health and safety at work

WEICON Easy-Mix PE-PP 45, when properly handled and completely cured, is toxicologically essentially harmless. When using the adhesive, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Storage

6 months at 0°C to +4°C (+32°F to +39°F)
3 months at +20°C to +25°C (+68°F to +77°F)

Processing:

The prerequisite for perfect adhesion are clean and dry surfaces (e.g. cleaning and degreasing with Cleaner S or Plastic Cleaner). Smooth surfaces can be roughened mechanically, for example with grinding paper grain size P 120.

WEICON Easy-Mix PE-PP 45 can only be processed with the WEICON Dispenser Pistol with special piston (10:1) and the special mixing nozzles for this system. It is absolutely essential that the mixing nozzle is put on correctly (details hereof can be found in the instructions for use attached to each packing unit).

Optimum processing is at room temperature (+20°C/+68°F to +25°C/+77°F).

WEICON Easy-Mix PE-PP 45 has a pot life and a processing time of approx. 2-3 minutes. Immediately after the application of the adhesive, the parts to be bonded should be joined, then positioned and fixed for curing.

The integrated additives (glass beads) provide a minimum thickness of the adhesive layer of 0.15 mm to 0.20 mm. This thickness is required for the chemical reaction between the adhesive and the plastic to be bonded. Best strength values are achieved with adhesive layers of 0.20 mm to 0.30 mm.

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Car part made of PP

Structural Acrylic Adhesives

PE-PP 45

Chemical resistance of WEICON Easy-Mix PE-PP 45 after curing*

Acetone	+	Isopropyl acetate	+
Acidic vapours	+	Isopropyl alcohol	+
Alcohol	+	Isopropyl ether	+
Aliphatic hydrocarbons, (petroleum derivative)	+	Kerosene	+
Alkaline vapours	+	Ketone	+
Ammonia, ammonium chloride	+	Lubricating oils and grease	+
Ammonium chloride	+	Mercury	+
Aromatic hydrocarbons (benzoyl, methylbenzene, xylene)	0	Methanol (methyl alcohol)	+
Benzoyl	0	Methyl benzoyl	+
Benzoyl acid	+	Methyl chloride	0
Bilge medium (bilge water)	+	Methyl ethyl ketone	+
Brake fluid	+	Methyl isobutyl ketone, isopropyl acetone	+
Bromide solution	0	Methylene dichloride	+
Butyl alcohol (Isobutanol)	+	Mineral oil	+
Calcium chloride (sea salt)	+	Mineral turpentine	+
Calcium sulphate	+	Nitric acid 5%	+
Calcium sulphite	+	Nitric acid, fuming	-
Chlorinated hydrocarbon	+	Oxygen	-
Chlorinated salt water (swimming pool concentrate)	+	Ozone	-
Chlorinated solvent (dichloromethane)	-	Paraffin oil, kerosene	+
Chlorinated water (swimming pool concentration)	+	Perchlormethylmercaptan	+
Chlorine alcohol	+	Persulfuric acid 5%	+
Chlorine bleach	-	Petrol	+
Chlorine gas, liquid and dry	-	Phenol (Carbolic acid)	+
Chlorine sulphuric acid	-	Phenol resin	+
Chlorine, liquid and dry	-	Phosphoric acid 5%	+
Chloroform	+	Phthalic acid (benzene dicarboxylic acid)	+
Chromic acid 5%	+	Polyphosphoric acid 5%	+
Cooling lubricants	+	Potassium carbonate (potash)	+
Corrosive ammonium, ammonium hydroxide	0	Propyl alcohol	+
Cylinder oil	+	Selenium chloride	+
Dichloroethylene ether	+	Silicon oils	+
Epichlorohydrin	+	Sulphur dioxide, wet and dry	+
Freon	0	Sulphur trioxide gas	-
Fuel for jet or turbine engines	+	Sulphuric acid	0
Glycol, glycine	+	Sulphuric acid, fuming	-
Heating oil, diesel	+	Tannic acid (gallotannic acid)	0
Heptane	+	Toluene (methylbenzene)	0
Hydrochloric acid (muriatic acid)	0	Toluene sulphuric acid	0
Hydrocyanic acid, prussic acid 5%	+	Trichloroethylene	+
Hydrogen bromide 5%	+	Turpentine, Turpentine oil	+
Hydrogen chloride	+	Waste water, excrements	+
Hydrogen fluoride (hydrofluoric acid)	-	Water	+
Hydrogen peroxide	0	Water, boiling	0
Hydrogen sulphide, wet and dry	+	Water, distilled	+
Isobutyl alcohol (isobutene)	+	Xylene (dimethylbenzoyl)	0

+ = resistant

0 = resistant for a limited time

- = not resistant

*Storage of the test pieces was at +20°C (+68°F) chemical temperature.

WEICONLOCK®

Threadlocking

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1-Component Adhesives and Sealants





WEICONLOCK®

WEICONLOCK products are high quality anaerobic adhesives and sealants on the basis of special methacrylate resins, especially made for economical threadlocking, retaining and sealing of threaded, cylindrical and pipe assemblies.

The characteristic feature of WEICONLOCK is the curing in contact with metal while deprived of air. It provides a shock- and vibration-resistant joint with excellent resistance to chemicals and solvents.

Due to its liquid consistency WEICONLOCK completely fills the gaps, thus giving protection against leakage and fretting corrosion.



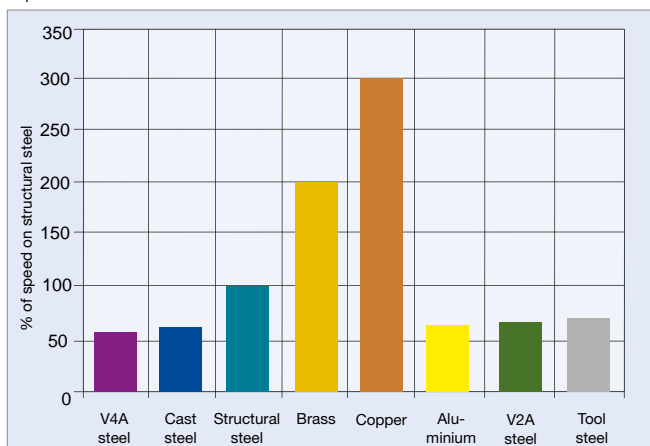
Special features and benefits

WEICONLOCK® is simple, easy to use and very economical. Handling strength is reached within a few minutes and final strength within a few hours at roomtemperature. Metering and mixing is not necessary, there is no pot life to be respected and product wastage is minimised.

In many respects, WEICONLOCK is superior to conventional methods of assembly.

- The use of WEICONLOCK
- avoids expensive down-times
 - reduces production costs
 - improves operational reliability
 - reduces assembly times

General curing speed of WEICONLOCK dependent on the material



Applications

Offering different grades of strength and viscosity, WEICONLOCK is suitable for a wide range of applications:

- For locking, fastening and sealing of screw connections from M5 to M80, for pipe joints as well as coarse threaded connections up to 3".
- For reliable retaining of bearings, bushings, bolts and other press or slip fitted connections.
- For sealing and locking hydraulic and pneumatic pipe connections.

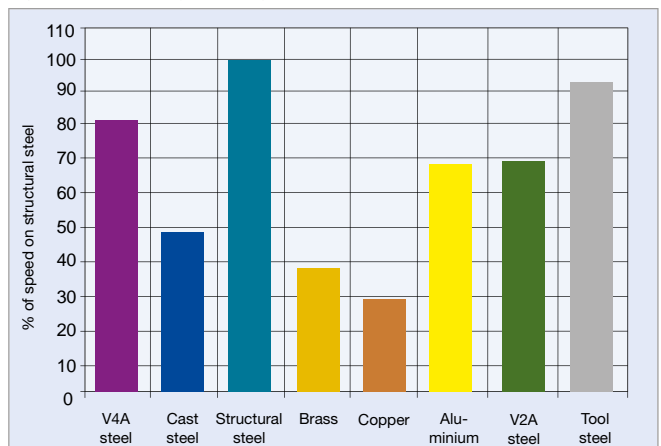
In addition, WEICONLOCK is highly recommended for use in flange sealing, replacing conventional gaskets in many cases. The benefits are:

- No expensive stock keeping
- No problems with complicated seals
- No setting of the seals (unlike solid gaskets)

WEICONLOCK is suitable for all metals and certain plastics. It can be applied either manually or semi / fully automatic. As cost-effective problem solvers, WEICONLOCK products are indispensable in many sectors of industry:

- Automotive industry
- Engine and plant construction
- Manufacture of pumps and pipes
- Hydraulic and pneumatic equipment
- Precision mechanics
- In electrical engineering and electro-technics and in nearly all fields of repair and maintenance

Compression shear strength of WEICONLOCK dependent on the metal (DIN 544521)



WEICONLOCK®

General Information

Pretreatment of Surface

In general, WEICONLOCK does not require special pretreatment as slightly oily surfaces (e.g. on 'as received' parts) will be tolerated. However, best results will be achieved on cleaned, degreased parts (use WEICON Cleaner S). If required, the parts should be slightly roughened.

Application

WEICONLOCK is ready for use and should be applied evenly direct from the bottle/tube with the dispensing tip (avoid direct contact of dispensing tip with metal). On pressfitted parts and larger cylindrical assemblies a thin and uniform layer should be applied on both surfaces. In the case of threaded blind holes fill sufficient quantity in the bore hole. On screws and bolts, apply WEICONLOCK® around the thread.

Do not pour back into the bottle any WEICONLOCK fluid which had contact with metal; even smallest metal particles will cause the content of the bottle to cure. In series construction, the use of manual or automatic applicators is recommended.

Choice of product

WEICONLOCK is available in different categories of strength

low strength	=	easy dismantling
medium strength	=	dismantling possible with ordinary tools
high strength	=	cannot be dismantled mechanically other than by destruction

Different viscosity grades enable the locking of screws of smallest diameter up to M80/R3".



Active and Passive materials

Active materials
(fast curing)

- bronze
- iron
- copper
- brass
- steel

Passive materials
(slower curing)

- high-alloyed steel
- aluminium, nickel, zinc, gold
- oxid layers
- chromate layers
- anodic coatings
- plastics and ceramics

WEICONLOCK Activator F

The cure time can considerably be reduced by pretreatment with WEICONLOCK Activator F, which is recommended for all passive surfaces and which is indispensable at low ambient temperatures (+10°C/+50°F and below) and for large gaps. On non-metallic surfaces, WEICONLOCK is made effective by using the activator.

200 ml ✓
30700200
Spray

1 l ✓
30700501
Liquid



For applications where passive surfaces are involved, where the use of an activator is not wanted yet and a rapid cure is required, a solution could be the use of types AN 302-60, AN 302-80, AN 306-10 and AN 306-30. These special types allow to reach handling strength much quicker than any standard type (without activator).

Cure

WEICONLOCK remains liquid as long as in contact with air. The cure starts when WEICONLOCK, between the interfaces, comes into contact with metal under the absence of air. The curing time is dependent on the selected type, the ambient temperature and the material.

Dismantling

Connections of low and medium strength can easily be loosened with ordinary tools; high-strength bonded parts can be disassembled by being heated to min. +300°C (+572°F). Cured residues of WEICONLOCK can be removed mechanically or with „WEICON Sealant and Adhesive Remover“.

Storage

WEICONLOCK can be stored in the unopened original container for at least one year at room temperature. Keep away from heat sources and direct sunlight. The air in the bottle/tube keeps WEICONLOCK liquid.

Safety precautions

WEICONLOCK adhesives and sealants generally do not cause allergic reactions of the skin. However, in isolated cases where skin is continuously bruised or micro-lacerated sensitisation may occur. Therefore, extensive and direct contact with the skin should be avoided, e.g. by use of WEICON Hand Protective Foam. See further details in the Material Safety Data Sheets which are available upon request.



Resistance to chemicals from WEICONLOCK after the cure

acetaldehyde	+	copper sulphate	+	maleic	+	potassium hydroxide	-
acetate solvent	+	cold salt water	+	melamine resin	+	pyridine	+
acetic acid 10%	%+	developer liquid	+	mercaptan, thioalcohol	+	river water	+
acetic acid 80%	%O	dichloroethylether	+	methane	+	sewage, feaces	+
acetone	+	diethyl ether	+	methylamine	+	seawater	+
alcohols	+	diethyl ether	+	methyl ethyl ketone	+	silicone oils	+
alkaline solution (alk. salt water)	+	diglycollic	+	methyl acetate	+	sorbitol	+
ammoniac anhydride	-	dioxane - dry	+	mineral oil, white	+	steam sterilization	+
ammonium hydroxide	O	drinking water	+	mine water	+	styrene	+
amyl acetate	+	emulsified oils	+	naphtha, petroleum, shale oil	+	sulfones	+
aniline	+	ethyl acetate	+	naphthalene	+	sulfonic acids (10 %)	%+
aromat. gasoline	+	ethylenediamine	+	natronhydroxyd 20% hot	%O	sulfuric acid (75 - 100 %)	%-
aromat. solvent	+	ethylene dichloride	+	natronhydroxyd 20% cold	%+	sulfur mud solution in carbon disulphide	+
ash slurry	+	ethylene glycol	+	natronhydroxyd 50% hot	%-	sulphurous acid	O
barium sulfate	+	fatty acids	+	natronhydroxyd 50% cold	%O	sulfuric acid 75%	%O
battery acid (10%)	%+	ferrous sulphate	+	natronhydroxyd 70% hot	%-	turpentine	+
benzene	+	formaldehyde - cold	+	natronhydroxyd 70% cold	%O	thiourea	+
benzoic acid	+	formic acid (cold)	+	nitric acid (20 %)	%+	toluene, methylbenzene	+
boric acid	+	freon	+	oils	+	trichloroethane	+
brake fluid	+	fuel oil	+	oxalic acid	+	trichloromethane	+
butadiene	+	fuming nitric acid	-	paraffin oil, kerosene	+	trioxane	+
butyric 10%	%+	fuming sulfuric acid	-	perchlorethylene (dry)	+	vapor pressure - low	+
butylaldehyde	+	gasoline	+	perchloric acid, perchloric acid 10%	%+	vaseline	+
butylamine	+	glycolic acid	+	permanganic	-	vinyl acetate	+
butyl acetate	+	glycerine	+	peroxide bleaching	+	wax	+
butyl chloride	+	grease lubrication	+	peroxy	-	xylene, dimethylbenzene	+
cadmium sulfate	+	hydrogen bromide (10%)	%+	persulphuric (10 %)	%+		
castor oil	+	Hydrocyanic acid (10 %)	%+	phenol	+		
cellulose acetate	+	hydrogen	+	phenolic resins	+		
chinon	+	hydrogen peroxide conc.	O	phosphoric acid 10% hot	O		
chlorine - dry	-	hydrofluoric acid	-	phosphoric acid 10% cold	+		
chlorine alcohol	+	heptane	+	phosphoric acid 50% hot	O		
chloramine	+	hydrazine	+	phosphoric acid 50% cold	O		
chlorine dioxide	O	hydrochloric acid	O	phosphoric acid 85% hot	-		
chlorinated hydrocarbon	+	isocyanate resin	+	phosphoric acid 85% cold	O		
chloroform - dry	+	isooctane	+	phthalic	+		
coal tar	+	ketones	+	potash alum	+		
copper chloride	+	lithium chloride	+	potassium acetate	+		

+ = good resistance

O = preliminary tests resp. resistance tests are recommended

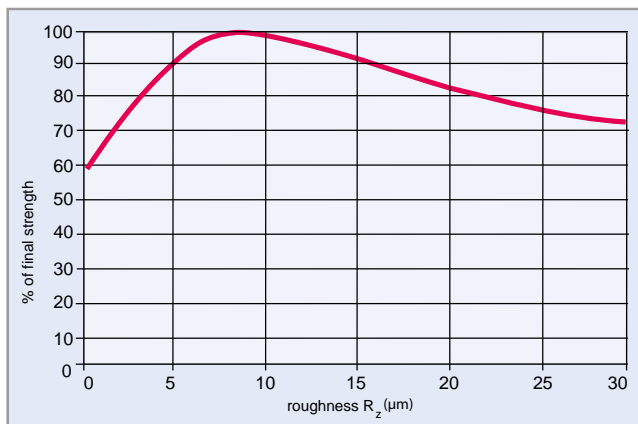
% = WEICONLOCK products are resistant only up to the indicated concentration

— = WEICONLOCK products are not suitable, or may be used only after thorough preliminary tests

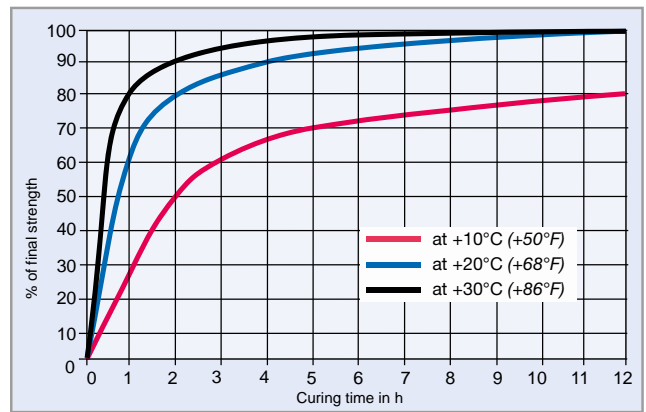
Anaerobic Adhesives and Sealants

WEICONLOCK®

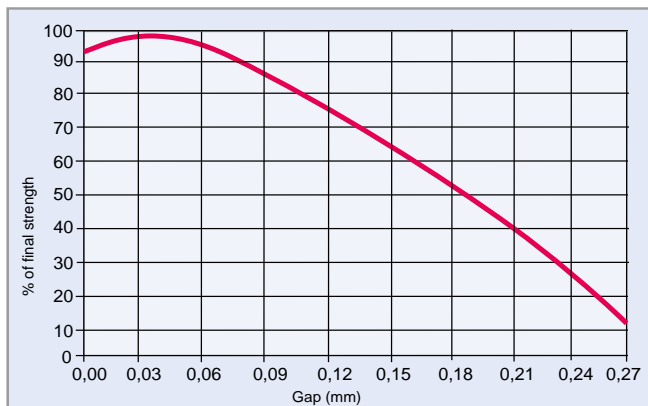
Strength of WEICONLOCK®
Dependent on the roughness



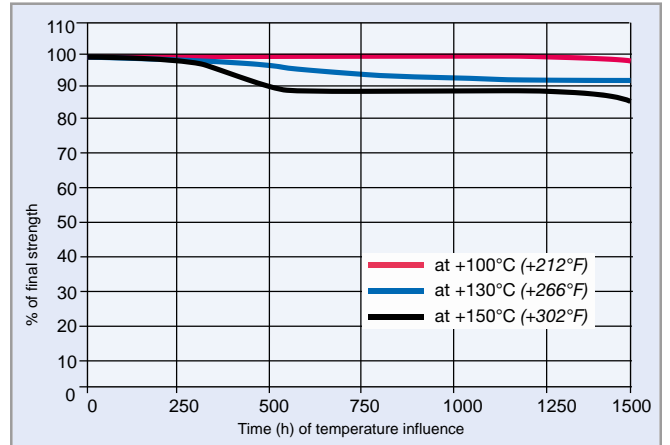
Curing speed of WEICONLOCK®
Dependent on the ambient temperature



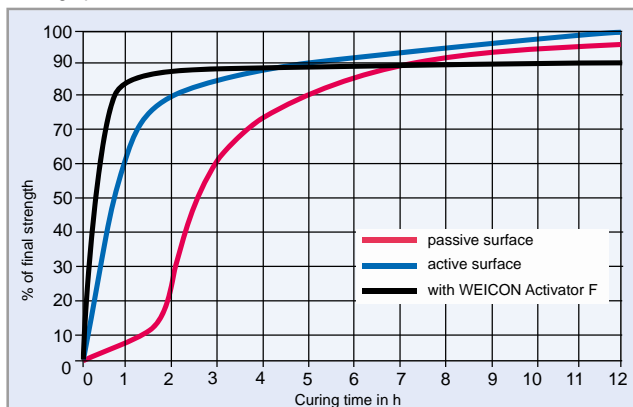
Strength of WEICONLOCK®
Dependent on the joint gap



Temperature long-term resistance WEICONLOCK®
At increased temperatures



Curing speed with WEICON Activator F

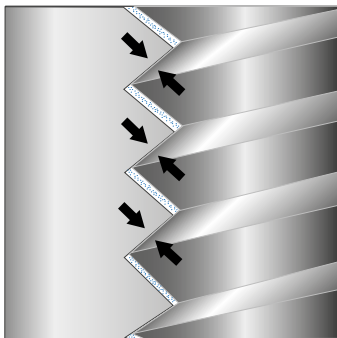
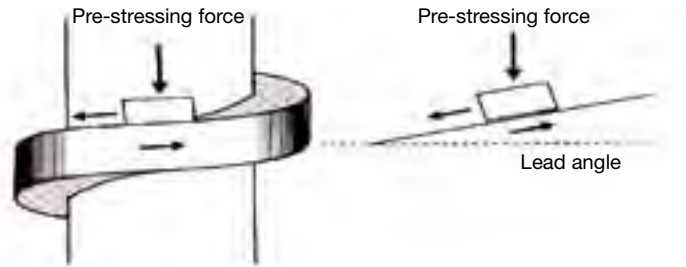




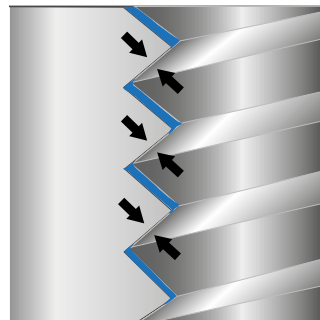
Threadlocking

In screw fixings, the flanks of the threads of bolt and nut are firmly pressed together under a specific pre-stressing force. The achieved clamping force depends on i. a. the applied pre-stressing force, the screw's geometry and the quality of material.

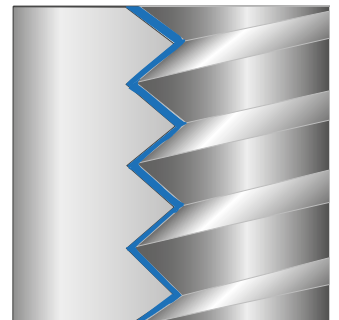
Target:
The self-loosening and unscrewing of the bolt is to be prevented (self-locking effect).



Assembly with pre-stressing



Assembly with pre-stressing



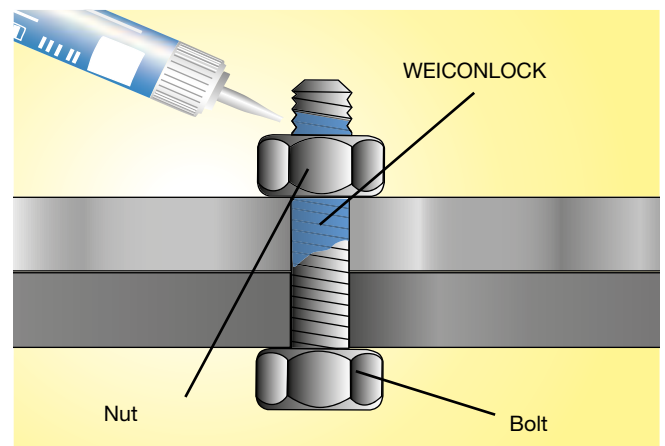
Floating assembly

Anaerobic Adhesives and Sealants

Threadlocking

WEICONLOCK meets the complex demands required in threadlocking today.

With conventional methods (e.g. spring ring, counter-nuts), breakaway forces are absorbed on only 40% of the contact surfaces. Threaded connections locked with WEICONLOCK instead have a higher breakaway torque. As a liquid, WEICONLOCK completely fills the voids and convolutions of threads to ensure 100% contact between the interfaces, thus preventing fretting corrosion at the same time.



Due to its sealing properties, WEICONLOCK allows to use through-holes instead of blind tapped holes and helps to ensure specific clamp loadings.

Even slightly oily fasteners may be excellently locked. However, optimum strength will be reached on parts cleaned and degreased (as with WEICON Surface Cleaner).



Failure of a screw by loosening

Possible causes:

Setting: Rough surfaces of the screw are flattened by the pressure of the pre stressing force.

Creeping: The compressive strength of screw material cannot resist the applied pre stressing.

Temperature variations. Expansion of the material at high temperatures, contraction at low temperatures.

WEICONLOCK® = Additional safety!

Liquid adhesives fill up the microscopic gaps between the threads completely and provide a material connection

No tolerances, no movement, no setting!

Thus: **No loosening or unscrewing!**

Further advantages: **Sealing and corrosion protection!**



AN 301-43*

Threadlocking, marking-free,
NSF-/DVGW-tested

higher viscosity
medium strength
disassembly with normal tools

20 ml ✓
30143020

50 ml ✓
30143150

200 ml ✓
30143200



Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	2.000 - 8.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	18 - 22 Nm
Prevailing strength (Thread)	9 - 11 Nm
Shear strength (DIN 54452)	10 - 13 N/mm ² (1.450 - 1.885 psi)
Handling strength at room temperature	5 - 15 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 301-70*

Threadlocking, marking-free
NSF-tested

medium viscosity
high strength
hard to disassemble

20 ml ✓
30170020

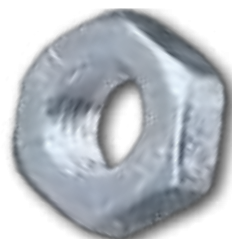
50 ml ✓
30170150

200 ml ✓
30170200



Technical Data

Colour	green
For threaded joints up to	M 25
Viscosity at +25°C (+77°F) Brookfield	500 - 900 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	25 - 35 Nm
Prevailing strength (Thread)	40 - 50 Nm
Shear strength (DIN 54452)	14 - 20 N/mm ² (2.030 - 2.900 psi)
Handling strength at room temperature	5 - 15 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



Anaerobic Adhesives and Sealants

Threadlocking

AN 302-21

Threadlocking, vibration-proof

low viscosity
low strength
easy disassembly

20 ml ✓
30221020

50 ml ✓
30221150

200 ml ✓
30221200



Technical Data

Colour	violet
For threaded joints up to	M 12
Viscosity at +25°C (+77°F) Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	3 - 6 Nm
Shear strength (DIN 54452)	4 - 7 N/mm ² (580 - 1.015 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

*



WEICONLOCK® »White Line«

The products AN 301-43 and 301-70 belong to the new WEICONLOCK »White Line«.

In order to take the increased requirements in the field of health protection and safety at work into account, WEICON now introduces the WEICONLOCK »White Line«.

The new formulas also enable use in sensitive production areas. Three types of the »White Line« have a »white« EC safety data sheet and are therefore marking-free and meet strict requirements of plant physicians.

The new »White Line« has been tested in accordance with the demanding requirements of the NSF/ANSI 61 (American National Standards Institute) for use in the drinking water area. It is therefore in particular suitable for applications in the food, cosmetics and pharmaceuticals sectors. The new WEICONLOCK »White Line« can also be used in all other areas of industry.

This results in the following advantages when using the new WEICONLOCK types:

- NSF drinking water approval in accordance with ANSI 61
- No marking¹ with danger symbols and risk or safety statements of the safety data sheet in accordance with the EC Regulations No. 1272/2008
- Increased safety at work and health protection
- Excellent resistance to chemicals after curing
- Temperature-resistant up to +200°C (+392°F)²

¹ Applies to the types AN 301-43, 301-70 and 301-72

² Applies to the type AN 301-72

AN 302-22

Threadlocking, vibration-proof

medium viscosity
low strength
easy disassembly

20 ml ✓
30222020

50 ml ✓
30222150

200 ml ✓
30222200



Technical Data

Colour	purple
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	1.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	4 - 8 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	3 - 5 N/mm ² (435 - 725 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 302-40

Threadlocking, vibration-proof DVGW-tested

medium viscosity
medium strength
disassembly with normal tools

20 ml ✓
30240020

50 ml ✓
30240150

200 ml ✓
30240200



Technical Data

Colour	transparent
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	600 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	12 - 16 Nm
Prevailing strength (Thread)	18 - 24 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

Anaerobic Adhesives and Sealants

Threadlocking

AN 302-41

Threadlocking, vibration-proof

low viscosity
medium strength
normal to disassemble

20 ml ✓
30241020

50 ml ✓
30241150

200 ml ✓
30241200



Technical Data

Colour	blue
For threaded joints up to	M 12
Viscosity at +25°C (+77°F) Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	10 - 15 Nm
Prevailing strength (Thread)	12 - 16 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	approx. 3 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 302-42

Threadlocking

medium viscosity
medium strength
disassembly with normal tools

20 ml ✓
30242020

50 ml ✓
30242150

200 ml ✓
30242200



Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	1.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	14 - 18 Nm
Prevailing strength (Thread)	5 - 8 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)





AN 302-43

Threadlocking DVGW and KTW approval for drinking water sector

higher viscosity
medium strength
disassembly with normal tools

10 ml ✓
30243110

20 ml ✓
30243020

50 ml ✓
30243150

200 ml ✓
30243200



TZW Technologiezentrum Wasser
Karlsruhe
Prüfstelle Wasser

Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	2.000 - 7.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	17 - 22 Nm
Prevailing strength (Thread)	8 - 12 Nm
Shear strength (DIN 54452)	9 - 13 N/mm ² (1.305 - 1.885 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



Anaerobic Adhesives and Sealants

Threadlocking

New AN 302-44

Threadlocking for passive materials*,
DVGW approval

higher viscosity
medium strength
disassembly with normal tools

20 ml ✓
30244020

50 ml ✓
30244150

200 ml ✓
30244200



*



Passive materials:
(slow curing)

- High-alloyed steel
- Aluminium, nickel, zinc, gold
- Oxid layers
- Chromate layers
- Anodic coatings
- Plastics and ceramics



Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	3.000 - 8.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	8 - 12 Nm*
Prevailing strength (Thread)	5 - 8 Nm*
Shear strength (DIN 54452)	9 - 13 N/mm ² (1.305 - 1.895 psi)
Handling strength at room temperature	20 - 40 min.*
Final strength at room temperature	4 - 8 h*
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

*Strength measured on V4A stainless steel screws



Technical Data

Colour	transparent
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm ² (3.625 - 5.075 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C (-76 up to +347°F)



AN 302-50

Locking of threads and stud bolts

medium viscosity
high strength
hard to disassemble

20 ml ✓
30250020

50 ml ✓
30250150

200 ml ✓
30250200








AN 302-60

Threadlocking for passive materials*

medium viscosity
high strength
hard to disassemble

20 ml 
30260020

50 ml 
30260150


200 ml 
30260200



Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	700 - 1.000 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm ² (3.625 - 5.075 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C (-76 up to +356°F)


*


	Passive materials: (slow curing)	<ul style="list-style-type: none"> • High-alloyed steel • Aluminium, nickel, zinc, gold • Oxid layers • Chromate layers • Anodic coatings • Plastics and ceramics
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AN 302-62

Threadlocking

higher viscosity
strong
hard to disassemble

20 ml 
30262020

50 ml 
30262150

200 ml 
30262200



Technical Data

Colour	red
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	1.500 - 6.500 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	20 - 25 Nm
Prevailing strength (Thread)	40 - 55 Nm
Shear strength (DIN 54452)	10 - 15 N/mm ² (1.450 - 2.175 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

WEICONLOCK®

Threadlocking

AN 302-70

Locking of threads and stud bolts
DVGW approval

medium viscosity
high strength
hard to disassemble

Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	28 - 35 Nm
Prevailing strength (Thread)	50 - 65 Nm
Shear strength (DIN 54452)	15 - 20 N/mm ² (2.175 - 2.900 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



10 ml ✓
30270110

20 ml ✓
30270020

50 ml ✓
30270150

200 ml ✓
30270200








AN 302-71

Locking of threads and stud bolts

medium viscosity
high strength
hard to disassemble

20 ml 
30271020

50 ml 
30271150

200 ml 
30271200



Technical Data

Colour	red
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	28 - 35 Nm
Prevailing strength (Thread)	50 - 65 Nm
Shear strength (DIN 54452)	15 - 20 N/mm ² (2.175 - 2.900 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



Anaerobic Adhesives and Sealants

Threadlocking

AN 302-72

Locking of threads and stud bolts
high temperature resistant, DVGW approval

higher viscosity
high strength
hard to disassemble

20 ml ✓
30272020

50 ml ✓
30272150

200 ml ✓
30272200



Technical Data

Colour	red
For threaded joints up to	M 56 R 2"
Viscosity at +25°C (+77°F) Brookfield	6.000 - 15.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	20 - 30 Nm
Prevailing strength (Thread)	40 - 75 Nm
Shear strength (DIN 54452)	10 - 15 N/mm ² (1.450 - 2.175 psi)
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +230°C (-76 up to +446°F)

AN 302-90

Threadlocking, for subsequent locking and sealing of hairline cracks.
Due to its low viscosity and high capillary action, it penetrates into the thread
interstices, without the connection having to be loosened beforehand.
Ideal for preassembled screw connections.

extremely low viscosity, capillary
high strength
hard to disassemble

20 ml ✓
30290020

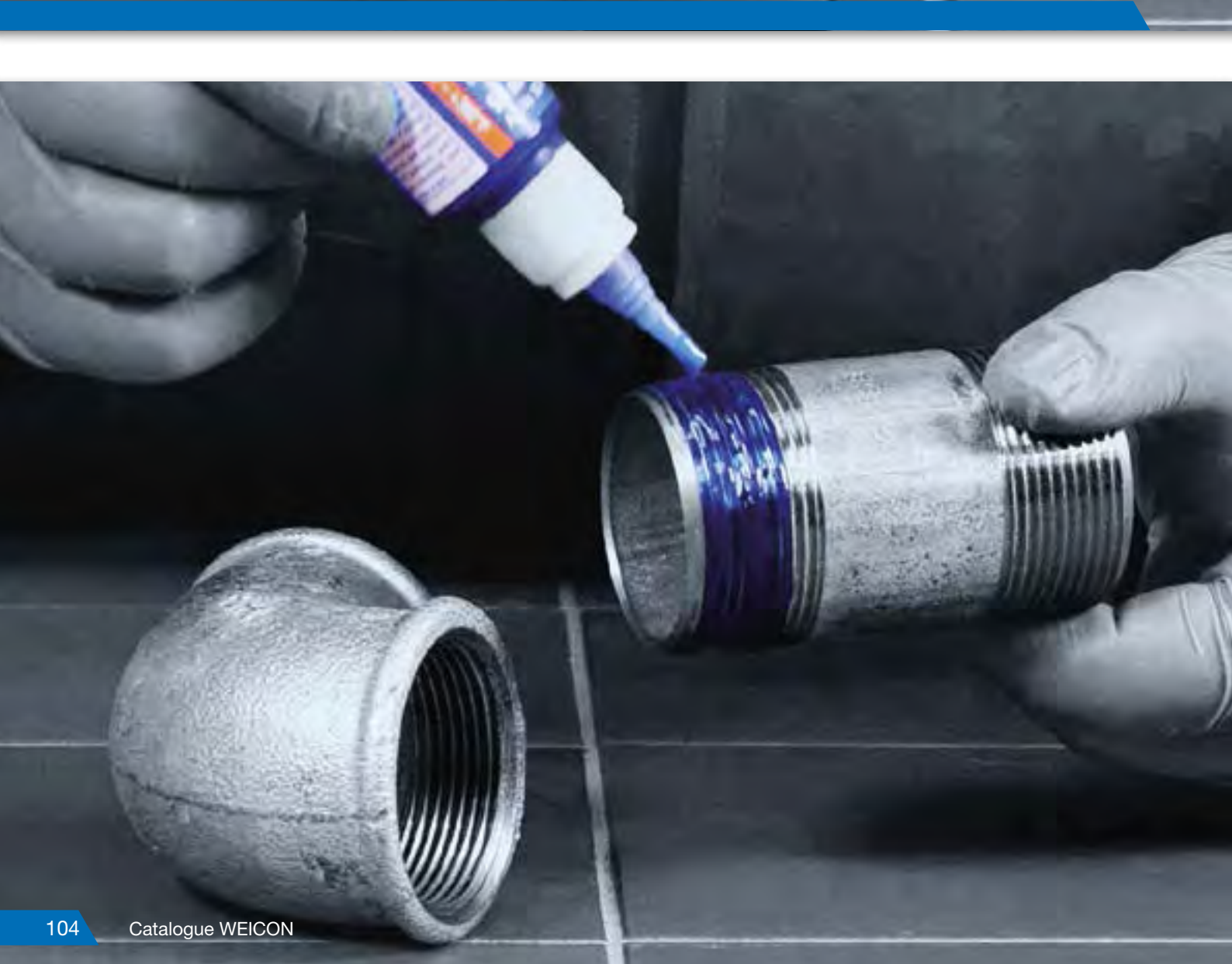
50 ml ✓
30290150

200 ml ✓
30290200



Technical Data

Colour	green
For threaded joints up to	M 5 kapillar
Viscosity at +25°C (+77°F) Brookfield	10 - 20 mPa·s
Gap filling capacity max.	0,07 mm
Breakaway strength (Thread)	15 - 25 Nm
Prevailing strength (Thread)	30 - 40 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	5 - 20 min.
Final strength at room temperature	approx. 3 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

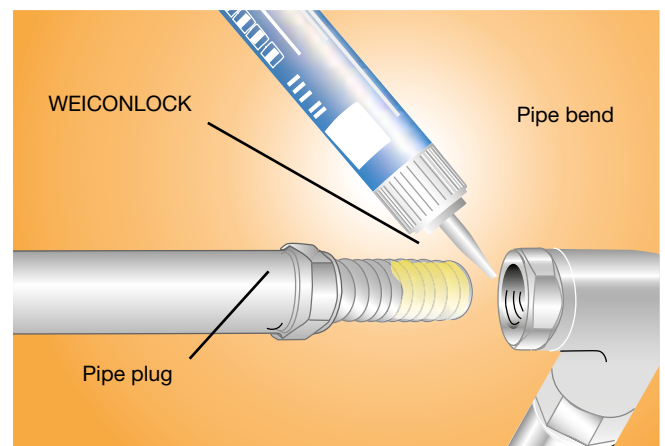


Anaerobic Adhesives and Sealants

Pipe and Thread Sealing

WEICONLOCK pipe and thread sealing types have especially been formulated to prevent the escape of gaseous and liquid substances. They seal up to burst point and resist almost all substances used in industry (list of chemical resistance is available on request).

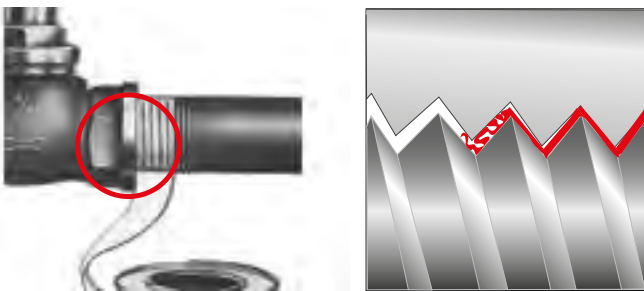
The use of WEICONLOCK prevents clogging and contamination of fittings as well as the blockage of hydraulic and pneumatic valves as may occur with conventional sealing methods (e.g. hemp or Teflon tape).



Connections sealed with WEICONLOCK are protected against seizing and fretting corrosion. The available different strength grades allow dismantling even after years.

Leakage risks in the application of hemp or sealing tapes:

- Difficult dosing and handling
- The tapes are often cut by the thread
- The roughness of threads and gaps are not fully filled
- Rotation often possible only in one direction, no correction possible



WEICONLOCK-Pipe sealing inside the thread

Prevents leakage risks through optimal gap filling!





AN 301-65*

Pipe and flange sealing with PTFE, marking-free formulation, NSF¹ ANSI 61 approval for the drinking water sector, DVGW² certified

high viscosity
medium strength
disassembly with normal tools

50 ml ✓
30165150

200 ml ✓
30165200



* The product AN 301-65 and AN 301-72 belong to the new WEICONLOCK »White Line«. More information on page 119.



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	180.000 - 300.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	4 - 8 Nm
Prevailing strength (Thread)	1 - 3 Nm
Shear strength (DIN 54452)	2 - 6 N/mm ² (290 - 870 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	24 h
Temperature resistance	-60 to +150°C (-76 to +302°F)

AN 301-72*

Pipe and flange sealing with PTFE marking-free, high temperature resistant NSF-/DVGW-approved

higher viscosity
medium strength
disassembly with normal tools

50 ml ✓
30172150

200 ml ✓
30172200



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	15.000 - 60.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	5 - 10 Nm
Prevailing strength (Thread)	4 - 6 Nm
Shear strength (DIN 54452)	5 - 7 N/mm ² (725 - 1.015 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +200°C (-76 up to +392°F)

Anaerobic Adhesives and Sealants

Pipe and Thread Sealing

AN 302-25

Pipe and thread sealing
vibration-proof for coarse threads

high viscosity
low strength
easy disassembly

50 ml ✓
30225150

200 ml ✓
30225200



Technical Data

Colour	brown
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	6.000 - 30.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	5 - 8 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	3 - 5 N/mm ² (435 - 725 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 302-45

Pipe and thread sealing for coarse threads
DVGW-tested

high viscosity
medium strength
disassembly with normal tools

50 ml ✓
30245150

200 ml ✓
30245200



Technical Data

Colour	blue
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	6.000 - 30.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	10 - 15 Nm
Prevailing strength (Thread)	12 - 18 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

AN 302-75

Pipe and thread sealing
BAM certified

high viscosity
high strength
hard to disassemble

50 ml ✓
30275150

200 ml ✓
30275200



Technical Data

Colour	green
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	14.000 - 24.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	40 - 50 Nm
Prevailing strength (Thread)	40 - 50 Nm
Shear strength (DIN 54452)	15 - 25 N/mm ² (2.175 - 3.625 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 302-77

Pipe and thread sealing for
large thread parts and flanges

higher viscosity
high strength
hard to disassemble

50 ml ✓
30277150

200 ml ✓
30277200



Technical Data

Colour	red
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	6.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	30 - 40 Nm
Prevailing strength (Thread)	10 - 15 Nm
Shear strength (DIN 54452)	35 - 45 N/mm ² (5.075 - 6.525 psi)
Handling strength at room temperature	40 - 60 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

Anaerobic Adhesives and Sealants

Pipe and Thread Sealing

AN 302-80

Pipe and thread sealing for passive materials*

higher viscosity
high strength
hard to disassemble

20 ml ✓
30280020

50 ml ✓
30280150

200 ml ✓
30280200



Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	3.000 - 6.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	50 - 70 Nm
Shear strength (DIN 54452)	20 - 30 N/mm ² (2.900 - 4.350 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C (-76 up to +356°F)

*



Passive materials:
(slow curing)

- High-alloyed steel
- Aluminium, nickel, zinc, gold
- Oxide layers
- Chromate layers
- Anodic coatings
- Plastics and ceramics

Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,40 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm ² (580 - 870 psi)
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 305-11

Pipe and thread sealing
DVGW approval

higher viscosity
medium strength
disassembly with normal tools

50 ml ✓
30511150

200 ml ✓
30511200


300 ml ✓
30511300





AN 305-42

Hydraulic and pneumatic sealing
DVGW certified

medium viscosity
medium strength
disassembly with normal tools

20 ml 
30542020

50 ml 
30542150

200 ml 
30542200



Technical Data

Colour	brown
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	12 - 15 Nm
Prevailing strength (Thread)	18 - 22 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



Anaerobic Adhesives and Sealants

Pipe and Thread Sealing

AN 305-67

Pipe and flange sealing with PTFE,
gap filling capacity max. 0,60 mm

high viscosity
low strength
easy disassembly

50 ml ✓
30567150

200 ml ✓
30567200



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	170.000 - 410.000 mPa·s
Gap filling capacity max.	0,60 mm
Breakaway strength (Thread)	3 - 5 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	6 - 8 N/mm ² (870 - 1.160 psi)
Handling strength at room temperature	120 - 240 min.
Final strength at room temperature	24 - 72 h
Temperature resistance	-50 to +175°C (-58 to +347°F)

AN 305-72

Pipe and flange sealing (with PTFE)
immediate sealing effect, DVGW certified

high viscosity
medium strength
disassembly with normal tools

50 ml ✓
30572150

200 ml ✓
30572200

300 ml ✓
30572300



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,40 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm ² (580 - 870 psi)
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)





AN 305-77



Thread sealing
DVGW and BAM approval for oxygen

high viscosity
 medium strength
 disassembly with normal tools

50 ml
 30577150

200 ml
 30577200

300 ml
 30577300



Technical Data

Colour	yellow
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	24.000 - 70.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	18 - 22 Nm
Prevailing strength (Thread)	10 - 14 Nm
Shear strength (DIN 54452)	6 - 13 N/mm ² (870 - 1.885 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 305-78



Pipe and thread sealing for passive materials*,
DVGW approval

high viscosity
 medium strength
 disassembly with normal tools

50 ml
 30578150

200 ml
 30578200



Technical Data

Colour	yellow
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	50.000 - 80.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	11 - 16 Nm*
Prevailing strength (Thread)	4 - 7 Nm*
Shear strength (DIN 54452)	6 - 13 N/mm ² (870 - 1.895 psi)
Handling strength at room temperature	25 - 50 min.*
Final strength at room temperature	4 - 8 h*
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

*

	Passive materials: (slow curing)	<ul style="list-style-type: none"> • High-alloyed steel • Aluminium, nickel, zinc, gold • Oxide layers • Chromate layers • Anodic coatings • Plastics and ceramics
--	--	--

*Strength measured on V4A stainless steel screws

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Anaerobic Adhesives and Sealants

Pipe and Thread Sealing

AN 305-86

Pipe sealing, extra strong

higher viscosity
high strength
hard to disassemble

20 ml ✓
30586020

50 ml ✓
30586150

200 ml ✓
30586200



Technical Data

Colour	red
For threaded joints up to	M 56 R 2"
Viscosity at +25°C (+77°F) Brookfield	6.000 - 7.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	15 - 30 Nm
Prevailing strength (Thread)	25 - 45 Nm
Shear strength (DIN 54452)	10 - 20 N/mm ² (1.450 - 2.900 psi)
Handling strength at room temperature	60 - 90 min.
Final strength at room temperature	12 - 24 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



100%
PTFE

Thread Sealing Cord DF 175

For metal and plastic threads

WEICON DF 175 is a patented thread sealing cord made of 100% PTFE that seals almost all metal and plastic threads permanently and safely. WEICON DF 175 reliably compensates the intermediate space on the threads and creates a PTFE film in the required thickness during the screwing procedure. This film is extremely resistant to almost all chemicals, even the most aggressive solvents, caustic agents, and acids.

WEICON DF 175 is non-flammable and operates reliably in a temperature range from -200°C (-328°F) to $+240^{\circ}\text{C}$ ($+464^{\circ}\text{F}$).

In contrast to other sealing materials, for which the fabric solely acts as a base for the actual sealant, WEICON DF 175 itself is the sealing material. A separation of the base material and the sealing material over the service life of the screw connection is thus excluded.

WEICON DF 175 is very economical: 1 roll replaces up to 20 rolls of PTFE tape (12 mm x 0,1 mm x 12 m).

WEICON DF 175 is durable for an unlimited period of time and stays permanently soft and elastic.



175 m plastic can
30010175



TZW

Technologiezentrum Wasser
Karlsruhe
Prüfstelle Wasser

WRAS



WEICON DF 175 is used

- for almost all sealing of plastic and metal threads
- for ducts and pipes in which extremely aggressive media are transported
- in connection with gaseous or liquid media, such as oxygen, propane, butane and many more
- in the area of drinking water
- in extreme temperature ranges between -200°C (-328°F) and $+240^{\circ}\text{C}$ ($+464^{\circ}\text{F}$)
- in the area of solar applications
- wherever an unscrewing of the connection (tested up to 45°) without weakening of the sealing effect is required

Pipe and Thread Sealing

Properties and advantages:

- Monofilament (one cord) made of 100% PTFE
- Resistant to mould, bacteria, and fungus
- Resistant to microbiological stress and non-oxidizing
- Resistant to organic and inorganic chemicals, such as mineral acids, peroxides, hydrocarbons, chlorinated solvents, etc.
- Suitable for almost all thread connections
- Tested and approved by the most well-known international testing institutes or standards, such as KTW, WRAS, BAM, DVGW, UL
- Cost- and time-saving application
- Easy and fast installation from a practical dispenser with an integrated 360° cutter

Instructions for use:

Wind up the sealing cord from the beginning of the pipe in direction of the thread, overlapping randomly. Make sure that enough material has been applied at the beginning of the pipe. Apply 2-3 drops of the lubricant (in the removable bottom) on the sealing thread and spread it with the fingers on the sealed area. The lubricant is harmless and biodegradable (do not use lubricant in combination with liquid oxygen).

Observe the following guideline:

½" - 12 (fine thread) to 18 (coarse thread) windings

1½" - 16 (fine thread) to 24 (coarse thread) windings

The number of windings must be accordingly adapted to the diameter of the pipe.



Approvals:

- DVGW for gas according to DIN EN 751-3 FRp and GRp and DIN 30660
- Unscrewing up to 45° tested and certified by DVGW
- Drinking water test according to the KTW recommendation of the Bundesgesundheitsamt (German Health Authority)
- DVGW test up to 100 bar according to DIN EN 751-3 FRp and GRp at room temperature
- BAM-tested for oxygen, gaseous: up to 30 bar/+100°C (+212°F) (application with lubricant)
- BAM-tested for oxygen, liquid: up to 30 bar/+100°C (+212°F) (application without lubricant)
- WRC approval for Great Britain
- UL-listed: sealing material 19BN File MH26734, up to max. 1½", for pipelines in combination with petrol, petroleum, propane, butane, naphtha, gas (<300 psig)
- ASTM F423 tested for steam and cold water
- KIWA GASTEC Qa (NL): norm. 31, Class "20"



Pen-System
WEICON[®]
Design Pat. 00159884

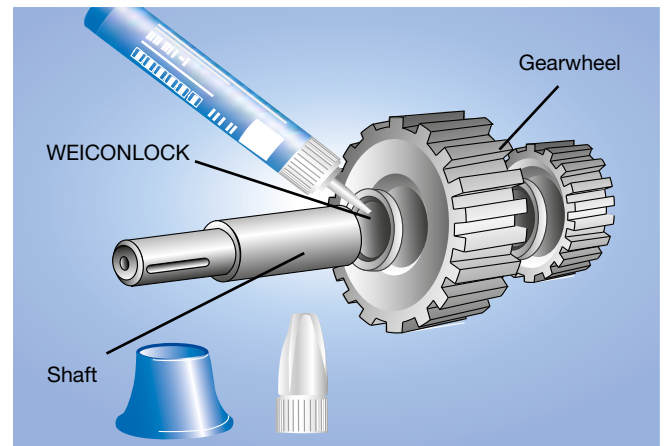
Anaerobic Adhesives and Sealants

Retaining Cylindrical Assemblies

WEICONLOCK retaining adhesives fill the voids on smooth mating surfaces and thus provide total contact of the parts. Additional securing (e.g. by keys) will not be necessary and fretting corrosion will be avoided.

Further applications:

Retention of ball-, roller- and slide bearings, bushes, bolts, liners, keys, splines and other close fitting parts



Combined methods of retaining (e.g bonding with WEICONLOCK in connection with shrinkfitting or pressfitting) allow to obtain a power transmission and torque strength higher than that for each of the two methods separately.

The combination of bonding and securing by feather keys will prevent punctual load and fretting corrosion. No axial securing will be necessary in this case.





AN 301-38*

Retaining cylindrical assemblies for bearings, shafts and bushings, NSF approval

medium viscosity
high strength
hard to disassemble

20 ml ✓
30138020

50 ml ✓
30138150

200 ml ✓
30138200



Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	2.000 - 3.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	30 - 40 Nm
Prevailing strength (Thread)	45 - 60 Nm
Shear strength (DIN 54452)	20 - 25 N/mm ² (2.900 - 3.625 psi)
Handling strength at room temperature	approx. 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



Anaerobic Adhesives and Sealants

Retaining Cylindrical Assemblies



AN 301-48*

Retaining cylindrical assemblies for bearings, shafts and bushings
high temperature resistant, DVGW + NSF approval

Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	450 - 650 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	25 - 30 Nm
Prevailing strength (Thread)	40 - 55 Nm
Shear strength (DIN 54452)	25 - 30 N/mm ² (3.625 - 4.350 psi)
Handling strength at room temperature	2 - 6 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C (-76 up to +347°F)



medium viscosity
high strength
hard to disassemble

20 ml ✓
30148020

50 ml ✓
30148150

200 ml ✓
30148200



*



WEICONLOCK® »White Line«

The products AN 301-38, 301-48, 301-65 and 301-72 belong to the new WEICONLOCK »White Line«.

In order to take the increased requirements in the field of health protection and safety at work into account, WEICON now introduces the WEICONLOCK »White Line«.

The new formulas also enable use in sensitive production areas. Three types of the »White Line« have a »white« EC safety data sheet and are therefore marking-free and meet strict requirements of plant physicians.

The new »White Line« has been tested in accordance with the demanding requirements of the NSF/ANSI 61 (American National Standards Institute) for use in the drinking water area. It is therefore in particular suitable for applications in the food, cosmetics and pharmaceuticals sectors. The new WEICONLOCK »White Line« can also be used in all other areas of industry.

This results in the following advantages when using the new WEICONLOCK types:

- NSF drinking water approval in accordance with ANSI 61
- No marking¹ with danger symbols and risk or safety statements of the safety data sheet in accordance with the EC Regulations No. 1272/2008
- Increased safety at work and health protection
- Excellent resistance to chemicals after curing
- Temperature-resistant up to +200°C (+392°F)²

¹ Applies to the types AN 301-43, 301-70 and 301-72

² Applies to the type AN 301-72



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

AN 306-00

Retaining cylindrical assemblies for bearings, shafts and bushings

medium viscosity
high strength
hard to disassemble

20 ml ✓
30600020

50 ml ✓
30600150

200 ml ✓
30600200



Technical Data

Colour	transparent
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm ² (3.625 - 5.075 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C (-76 up to +347°F)

AN 306-01

Retaining cylindrical assemblies for bearings, shafts and bushings

low viscosity
high strength
hard to disassemble

20 ml ✓
30601020

50 ml ✓
30601150

200 ml ✓
30601200



Technical Data

Colour	green
For threaded joints up to	M 12
Viscosity at +25°C (+77°F) Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	25 - 30 Nm
Prevailing strength (Thread)	50 - 60 Nm
Shear strength (DIN 54452)	18 - 23 N/mm ² (2.610 - 3.335 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

Anaerobic Adhesives and Sealants

Retaining Cylindrical Assemblies

AN 306-03

Retaining cylindrical assemblies for bearings, shafts and bushings

low viscosity
high strength
hard to disassemble

Technical Data

Colour	green
For threaded joints up to	M 12
Viscosity at +25°C (+77°F) Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	25 - 30 Nm
Prevailing strength (Thread)	50 - 60 Nm
Shear strength (DIN 54452)	15 - 18 N/mm ² (2.175 - 2.610 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



20 ml ✓
30603020

50 ml ✓
30603150

200 ml ✓
30603200





AN 306-10

Retaining cylindrical assemblies for passive materials*

medium viscosity
high strength
hard to disassemble

20 ml ✓
30610020

50 ml ✓
30610150

200 ml ✓
30610200

*



Passive materials:
(slower curing)

- High-alloyed steel
- Aluminium, nickel, zinc, gold
- Oxid layers
- Chromate layers
- Anodic coatings
- Plastics and ceramics



Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C (+77°F) Brookfield	700 - 1.000 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm ² (3.625 - 5.075 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C (-76 up to +356°F)

AN 306-20

Retaining cylindrical assemblies
high temperature resistant, DVGW-/KTW-approved

higher viscosity
high strength
hard to disassemble

20 ml ✓
30620020

50 ml ✓
30620150

200 ml ✓
30620200



TZW Technologiezentrum Wasser
Karlsruhe
Prüfstelle Wasser



Technical Data

Colour	green
For threaded joints up to	M 56 R 2"
Viscosity at +25°C (+77°F) Brookfield	3.000 - 6.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	28 - 36 Nm
Prevailing strength (Thread)	40 - 55 Nm
Shear strength (DIN 54452)	15 - 25 N/mm ² (2.175 - 3.625 psi)
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	approx. 24 h
Temperature resistance	-60 up to +200°C (-76 up to +392°F)

Anaerobic Adhesives and Sealants

Retaining Cylindrical Assemblies



Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	3.000 - 6.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	50 - 70 Nm
Shear strength (DIN 54452)	20 - 30 N/mm ² (2.900 - 4.350 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C (-76 up to +356°F)



AN 306-30

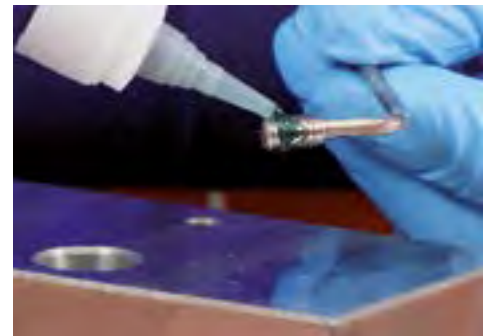
Retaining cylindrical assemblies for passive materials*, BAM approval for oxygen

higher viscosity
high strength
hard to disassemble

20 ml ✓
30630020

50 ml ✓
30630150

200 ml ✓
30630200



Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C (+77°F) Brookfield	2.500 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	50 - 70 Nm
Shear strength (DIN 54452)	25 - 30 N/mm ² (3.625 - 4.350 psi)
Handling strength at room temperature	approx. 5 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



AN 306-38

Retaining cylindrical assemblies for bearings, gear wheels and bolts, fast cure

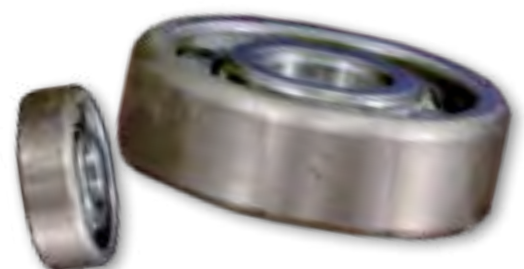
medium viscosity
high strength
hard to disassemble

10 ml ✓
30638110

20 ml ✓
30638020

50 ml ✓
30638150

200 ml ✓
30638200





AN 306-40

Retaining cylindrical assemblies
high temperature resistant, slow cure

medium viscosity
high strength
hard to disassemble

20 ml ✓
30640020

50 ml ✓
30640150

200 ml ✓
30640200



Technical Data

Colour	green
For threaded joints up to	M 20
Viscosity at +25°C (+77°F) Brookfield	600 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	20 - 30 Nm
Prevailing strength (Thread)	30 - 40 Nm
Shear strength (DIN 54452)	15 - 30 N/mm ² (2.175 - 4.350 psi)
Handling strength at room temperature	approx. 240 min.
Final strength at room temperature	approx. 24 h
Temperature resistance	-60 up to +200°C (-76 up to +392°F)

AN 306-41

Retaining cylindrical assemblies for
bearings, shafts and bushings

medium viscosity
medium strength
disassembly with normal tools

20 ml ✓
30641020

50 ml ✓
30641150

200 ml ✓
30641200



Technical Data

Colour	yellow
For threaded joints up to	M 20
Viscosity at +25°C (+77°F) Brookfield	550 mPa·s
Gap filling capacity max.	0,12 mm
Breakaway strength (Thread)	12 - 15 Nm
Prevailing strength (Thread)	17 - 22 Nm
Shear strength (DIN 54452)	8 - 12 N/mm ² (1.160 - 1.740 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

Anaerobic Adhesives and Sealants

Retaining Cylindrical Assemblies



AN 306-48

Retaining cylindrical assemblies
high temperature resistant, BAM approval

medium viscosity
high strength
hard to disassemble

20 ml ✓
30648020

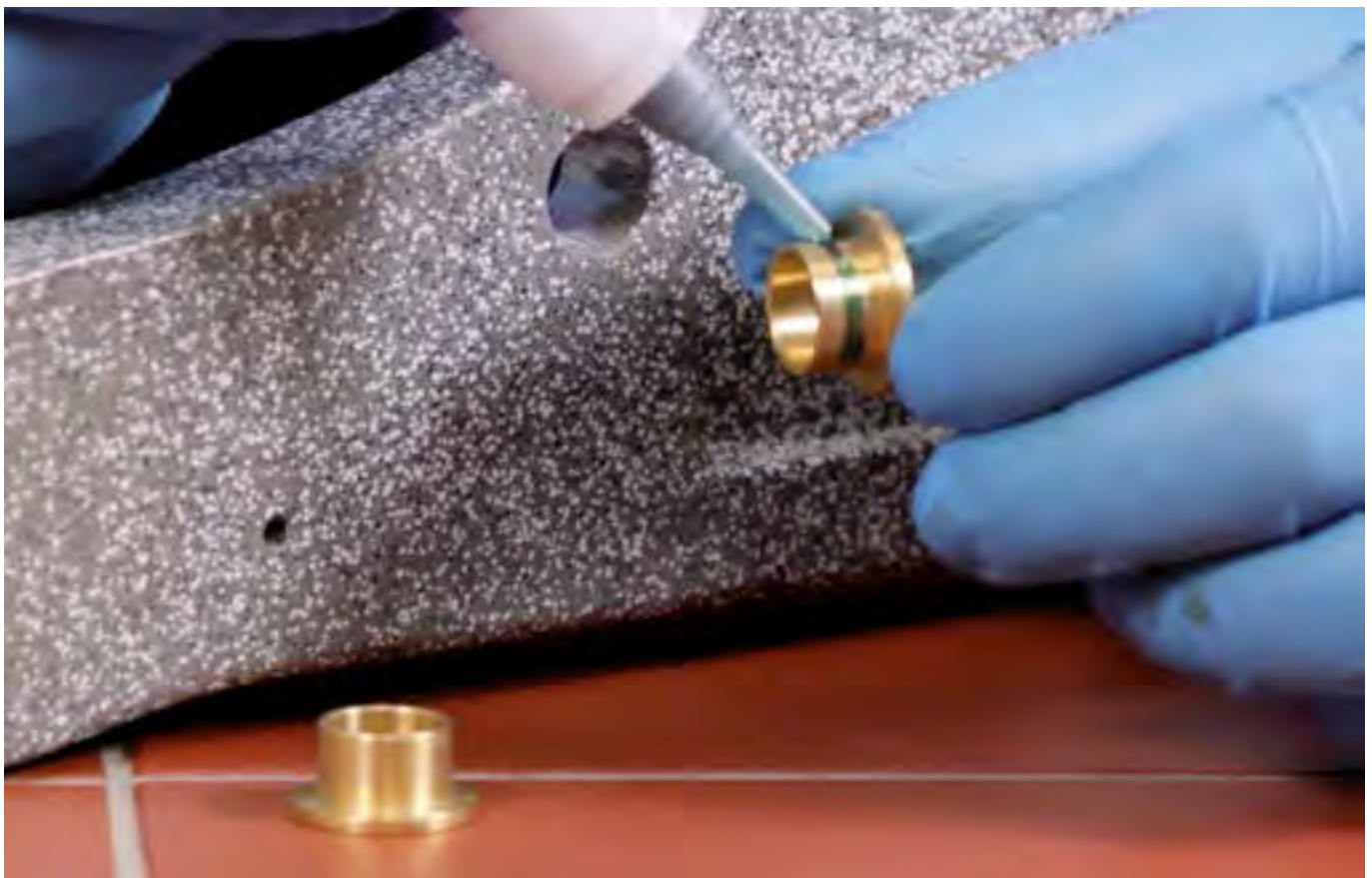
50 ml ✓
30648150

200 ml ✓
30648200



Technical Data

Colour	green
For threaded joints up to	M 20
Viscosity at +25°C (+77°F) Brookfield	550 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm ² (3.625 - 5.075 psi)
Handling strength at room temperature	approx. 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C (-76 up to +347°F)





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Anaerobic Adhesives and Sealants

Retaining Cylindrical Assemblies

Technical Data

Colour	transparent
For threaded joints up to	M 36 R 1 1/2"
Viscosity at +25°C (+77°F) Brookfield	2.500 - 3.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm ² (3.625 - 5.075 psi)
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



AN 306-50

Retaining cylindrical assemblies for bearings, shafts and bushings

higher viscosity
medium strength
hard to disassemble

20 ml ✓
30650020

50 ml ✓
30650150

200 ml ✓
30650200

Technical Data

Colour	silver
For threaded joints up to	R 2"
Viscosity at +25°C (+77°F) Brookfield	150.000 - 900.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	10 - 20 Nm
Shear strength (DIN 54452)	25 - 30 N/mm ² (3.625 - 4.350 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)



AN 306-60

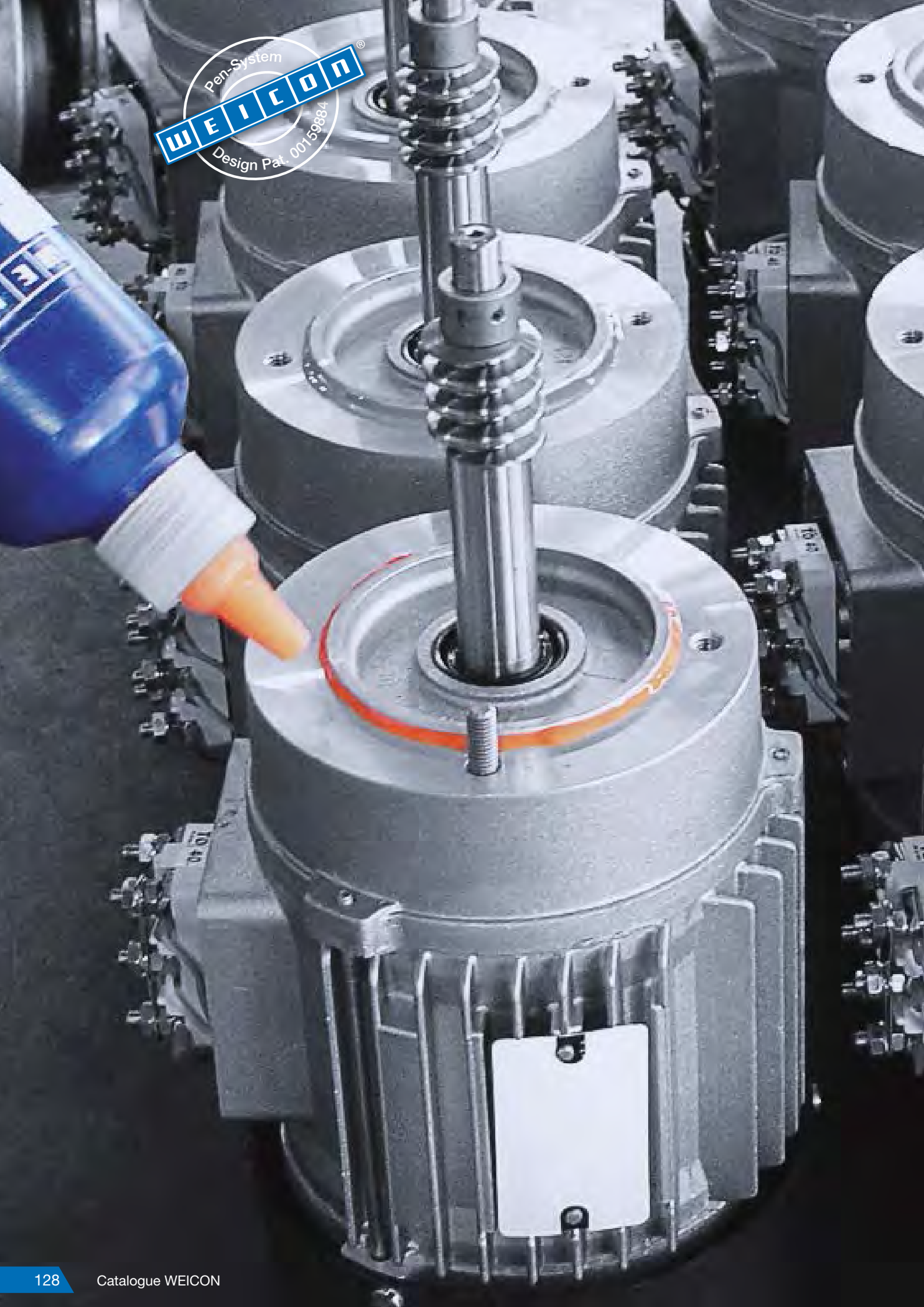
Assembly of cylindrical parts for worn out bearing rings and bushings

high viscosity
high strength
hard to disassemble

50 ml ✓
30660150

200 ml ✓
30660200

300 ml ✓
30660300

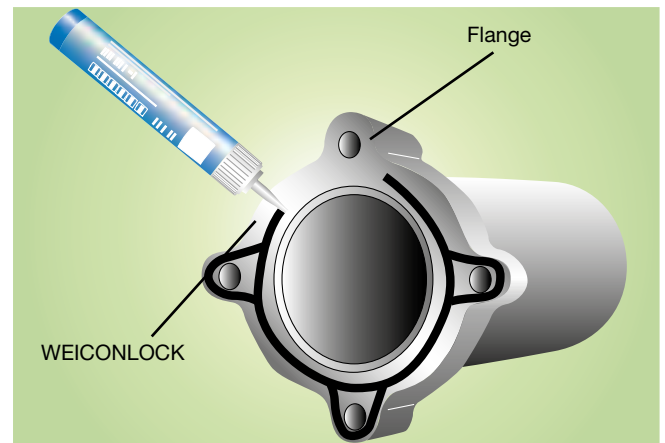


Anaerobic Adhesives and Sealants

Flange Sealing and Gasketing

Sealing with solvent-free, liquid WEICONLOCK is an excellent technological solution. Unlike ordinary gaskets (paper, fibre or cork), WEICONLOCK sealant products will always fit the required size. They completely fill the voids of surfaces and guarantees total face-to-face contact.

At low pressures (up to 6 bar), WEICONLOCK provides an instant seal.



Contrary to conventional gaskets, there is no setting of a WEICONLOCK-formed gasket.

Due to high elasticity, WEICONLOCK flange sealants can be used under extreme conditions. Cured WEICONLOCK products are resistant against most chemical media (such as liquids and gases) used in industry.





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

AN 301-65*

Pipe and flange sealing with PTFE, marking-free formulation, NSF¹ ANSI 61 approval for the drinking water sector, DVGW² certified

high viscosity
medium strength
disassembly with normal tools

50 ml ✓
30165150

200 ml ✓
30165200



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	180.000 - 300.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	4 - 8 Nm
Prevailing strength (Thread)	1 - 3 Nm
Shear strength (DIN 54452)	2 - 6 N/mm ² (290 - 870 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	24 h
Temperature resistance	-60 to +150°C (-76 to +302°F)

* The products AN 301-65 and AN 301-72 belong to the new WEICONLOCK »White Line«. More information on page 119.

AN 301-72*

Pipe and flange sealing with PTFE
marking-free, high temperature resistant
NSF-/DVGW-approved

higher viscosity
medium strength
disassembly with normal tools

50 ml ✓
30172150

200 ml ✓
30172200



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	15.000 - 60.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	5 - 10 Nm
Prevailing strength (Thread)	4 - 6 Nm
Shear strength (DIN 54452)	5 - 7 N/mm ² (725 - 1.015 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +200°C (-76 up to +392°F)

Anaerobic Adhesives and Sealants

Flange Sealing and Gasketing

AN 305-10

Gasketing of flanges, gearboxes and other motor housings
high temperature resistant

high viscosity
high strength
hard to disassemble

50 ml ✓
30510150

200 ml ✓
30510200

300 ml ✓
30510300



Technical Data

Colour	orange
For threaded joints up to	---
Viscosity at +25°C (+77°F) Brookfield	70.000 - 300.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	18 - 25 Nm
Prevailing strength (Thread)	15 - 25 Nm
Shear strength (DIN 54452)	5 - 10 N/mm ² (725 - 1.450 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +200°C (-76 up to +392°F)

AN 305-18

Flange sealing for filling large gaps
immediate sealing effect, high temperature resistant

high viscosity
high strength
hard to disassemble

50 ml ✓
30518150

200 ml ✓
30518200

300 ml ✓
30518300



Technical Data

Colour	red
For threaded joints up to	---
Viscosity at +25°C (+77°F) Brookfield	80.000 - 500.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	12 - 18 Nm
Prevailing strength (Thread)	18 - 24 Nm
Shear strength (DIN 54452)	8 - 13 N/mm ² (1.160 - 1.885 psi)
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +200°C (-76 up to +392°F)



AN 305-67

Pipe and flange sealing with PTFE, gap filling capacity max. 0,60 mm

high viscosity
low strength
easy disassembly

50 ml ✓
30567150

200 ml ✓
30567200



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	170.000 - 410.000 mPa·s
Gap filling capacity max.	0,60 mm
Breakaway strength (Thread)	3 - 5 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	6 - 8 N/mm ² (870 - 1.160 psi)
Handling strength at room temperature	120 - 240 min.
Final strength at room temperature	24 - 72 h
Temperature resistance	-50 to +175°C (-58 to +347°F)

Adhesives / Sealants

Technical Sprays

Technical Liquids

AN 305-72

Pipe and flange sealing with PTFE
immediate sealing effect, DVGW-approval

high viscosity
medium strength
disassembly with normal tools

50 ml ✓
30572150

200 ml ✓
30572200

300 ml ✓
30572300



Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C (+77°F) Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,40 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm ² (580 - 870 psi)
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

Assembly Pastes

Lubricants

Other

Anaerobic Adhesives and Sealants

Flange Sealing and Gasketing

AN 305-73

Gasketing of flanges, gearboxes and other motor housings

high viscosity
low strength
easy disassembly

50 ml ✓
30573150

200 ml ✓
30573200

300 ml ✓
30573300



Technical Data

Colour	light green
For threaded joints up to	---
Viscosity at +25°C (+77°F) Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	6 - 10 Nm
Prevailing strength (Thread)	2 - 5 Nm
Shear strength (DIN 54452)	4 - 6 N/mm ² (580 - 870 psi)
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	approx. 12 h
Temperature resistance	-60 up to +150°C (-76 up to +302°F)

AN 305-74

Gasketing of flanges, gearboxes and other motor housings

high viscosity
high strength
hard to disassemble

50 ml ✓
30574150

200 ml ✓
30574200

300 ml ✓
30574300



Technical Data

Colour	orange
For threaded joints up to	---
Viscosity at +25°C (+77°F) Brookfield	30.000 - 100.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	16 - 24 Nm
Prevailing strength (Thread)	5 - 10 Nm
Shear strength (DIN 54452)	5 - 10 N/mm ² (725 - 1.450 psi)
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	approx. 12 h
Temperature resistance	-60 up to +180°C (-76 up to +356°F)





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Typ-No.	Application	Features	Colour	For threaded joints up to	Viscosity in mPa·s at +25°C (+77°F) Brookfield	Gap filling capacity in mm max.
NSF AN 301-43	Threadlocking, DVGW ² /NSF approval	medium strength, higher viscosity	blue	M 36	2.000 - 8.000 mt	0,25
NSF AN 301-70	Threadlocking, NSF approval	high strength, medium viscosity	green	M 25	500 - 900 nt	0,15
AN 302-21	Threadlocking	low strength, low viscosity	violet	M 12	125	0,10
AN 302-22	Threadlocking	low strength, medium viscosity	purple	M 36	1.000 mt	0,20
AN 302-40	Threadlocking, DVGW ² -approval	medium strength, medium viscosity	transparent	M 20 R ¾"	600 nt	0,15
AN 302-41	Threadlocking	medium strength, low viscosity	blue	M 12	125 nt	0,10
AN 302-42	Threadlocking	medium strength, medium viscosity	blue	M 36	1.000 mt	0,20
AN 302-43	Threadlocking, DVGW ² /KTW ¹ approval	medium strength, higher viscosity	blue	M 36	2.000 - 7.000 mt	0,25
New AN 302-44	Threadlocking for passive materials, DVGW ² approval	medium strength, higher viscosity	blue	M 36	3.000 - 8.000 mt	0,25
AN 302-50	Threadlocking	high strength, medium viscosity	transparent	M 20 R ¾"	500 nt	0,15
AN 302-60	Threadlocking for passive materials	high strength, medium viscosity	green	M 20 R ¾"	700 - 1.000 nt	0,15
AN 302-62	Threadlocking	strong, higher viscosity	red	M 36	1.500 - 6.500 mt	0,25
AN 302-70	Locking of threads and stud bolts, DVGW ² -approval	high strength, medium viscosity	green	M 20 R ¾"	500 nt	0,15
AN 302-71	Locking of threads and stud bolts	high strength, medium viscosity	red	M 20 R ¾"	500 nt	0,15
AN 302-72	Locking of threads and stud bolts, DVGW ² -approval	high strength, higher viscosity	red	M 56 R 2"	6.000 - 15.000 mt	0,30
AN 302-90	Threadlocking for locking after assembly, AGA ⁴ -approval	high strength, extremely low viscosity	green	M 5 capillary	10 - 20	0,07
NSF AN 301-65	Pipe and flange sealing (with PTFE), DVGW ² /NSF approval	medium strength, high viscosity	white	M 80 R 3"	180.000 - 300.000	0,50
NSF AN 301-72	Pipe and flange sealing (with PTFE), DVGW ² /NSF approval	medium strength, high viscosity	white	M 80 R 3"	15.000 - 60.000 ht	0,30
AN 302-25	Sealing of threaded pipes and fittings	low strength, high viscosity	brown	M 80 R 3"	6.000 - 30.000 mt	0,30
AN 302-45	Sealing of threaded pipes and fittings, DVGW ² -approval	medium strength, high viscosity	blue	M 80 R 3"	6.000 - 30.000 mt	0,30
AN 302-75	Sealing of threaded pipes and fittings, BAM ³ approval	high strength, high viscosity	green	M 80 R 3"	14.000 - 24.000 mt	0,30
AN 302-77	Sealing of threaded pipes and fittings	high strength, higher viscosity	red	M 36	6.000	0,25
AN 302-80	Sealing of threaded pipes and fittings for passive materials	high strength, high viscosity	green	M 36	3.000 - 6.000 mt	0,20
AN 305-11	Sealing of threaded pipes and fittings, DVGW ² -approval	medium strength, high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40
AN 305-42	Sealant for hydraulic and pneumatic systems, DVGW ² -approval	medium strength, medium viscosity	brown	M 20 R ¾"	500 nt	0,15
AN 305-67	Pipe and flange sealing (with PTFE)	low strength, high viscosity	white	M 80 R 3"	170.000 - 410.000	0,60
AN 305-72	Pipe and flange sealing (with PTFE) DVGW ² /AGA ⁴ -approval	medium strength, high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40
AN 305-77	Sealing of threaded pipes and fittings, BAM ³ /DVGW ² /AGA ⁴ -approval	medium strength, high viscosity	yellow	M 80 R 3"	24.000 - 70.000 ht	0,50
New AN 305-78	Sealing of threaded pipes and fittings for passive materials DVGW ² -approval	medium strength, high viscosity	yellow	M 80 R 3"	50.000 - 80.000 ht	0,50
AN 305-86	Pipe sealing (extra strong)	high strength, higher viscosity	red	M 56 R 2"	6.000 - 7.000 nt	0,30
NSF AN 301-38	Retaining cylindrical assemblies, NSF approval	high strength, medium viscosity	green	M 36	2.000 - 3.000 mt	0,20
NSF AN 301-48	Retaining cylindrical assemblies, DVGW ² /NSF approval	high strength, medium viscosity	green	M 20 R ¾"	450 - 650 nt	0,15
AN 306-00	Retaining cylindrical assemblies	high strength, medium viscosity	transparent	M 20 R ¾"	500 nt	0,15
AN 306-01	Retaining cylindrical assemblies	high strength, low viscosity	green	M 12	125 nt	0,10
AN 306-03	Retaining cylindrical assemblies	high strength, low viscosity	green	M 12	125 nt	0,10
AN 306-10	Retaining cylindrical assemblies for passive materials	high strength, medium viscosity	green	M 20 R ¾"	700 - 1.000 nt	0,15
AN 306-20	Retaining cylindrical assemblies BAM ³ /DVGW ² /KTW ¹ approval	high strength, higher viscosity	green	M 56 R 2"	3.000 - 6.000 nt	0,20
AN 306-30	Retaining cylindrical assemblies for passive materials, BAM ³ approval	high strength, higher viscosity	green	M 36	3.000 - 6.000 mt	0,20
AN 306-38	Retaining cylindrical assemblies	high strength, medium viscosity	green	M 36	2.500 mt	0,20
AN 306-40	Retaining cylindrical assemblies	high strength, medium viscosity	green	M 20	600 nt	0,15
AN 306-41	Retaining cylindrical assemblies	medium strength, medium viscosity	yellow	M 20	550 nt	0,12
AN 306-48	Retaining cylindrical assemblies, BAM ³ approval	high strength, medium viscosity	green	M 20	550 nt	0,15
AN 306-50	Retaining cylindrical assemblies	medium strength, higher viscosity	transparent	M 36 R 1½"	2.500 - 3.000 mt	0,20
AN 306-60	Assembly of cylindrical parts	high strength, high viscosity	silver	R 2"	150.000 - 900.000 ht	0,50
NSF AN 301-65	Pipe and flange sealing (with PTFE), DVGW ² /NSF approval	medium strength, high viscosity	white	M 80 R 3"	180.000 - 300.000	0,50
NSF AN 301-72	Pipe and flange sealing (with PTFE), DVGW ² /NSF approval	medium strength, high viscosity	white	M 80 R 3"	15.000 - 60.000 ht	0,30
AN 305-10	Flange sealing, AGA ⁴ -approval	high strength, high viscosity	orange	---	70.000 - 300.000 ht	0,50
AN 305-18	Flange sealing	high strength, high viscosity	red	---	80.000 - 500.000 ht	0,50
AN 305-67	Pipe and flange sealing (with PTFE)	low strength, high viscosity	white	M 80 R 3"	170.000 - 410.000	0,60
AN 305-72	Pipe and flange sealing (with PTFE), DVGW ² / AGA ⁴ -approval	medium strength, high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40
AN 305-73	Flange sealing	low strength, high viscosity	light green	---	17.000 - 50.000 ht	0,30
AN 305-74	Flange sealing	high strength, high viscosity	orange	---	30.000 - 100.000 ht	0,50

*Strength values based on M 10 screws, 8.8 grade, thickness of nut 0,8.d

** Static shear strength based on cylindrical parts of abt. Ø 13 mm, tolerance (D-d) = 0,05 mm, l/d = 0,88

Anaerobic Adhesives and Sealants

WEICONLOCK®

Typ-No.	Breakaway strength N/m (Thread*)	Prevailing strength N/m (Thread*)	Shear-strength** N/mm² (DIN 54452)	Handling strength at room temp. (minute)	Final strength at room temperature (hours)	Temperature resistance
NSF AN 301-43	18 - 22	9 - 11	10 - 13 (1.450 - 1.885 psi)	5 - 15	1 - 3	-60°C to +150°C (-76°F to +302°F)
NSF AN 301-70	25 - 35	40 - 50	14 - 20 (2.030 - 2.900 psi)	5 - 15	5 - 10	-60°C to +150°C (-76°F to +302°F)
AN 302-21	7 - 10	3 - 6	4 - 7 (580 - 1.015 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-22	4 - 8	2 - 4	3 - 5 (435 - 725 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-40	12 - 16	18 - 24	8 - 12 (1.160 - 1.740 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-41	10 - 15	12 - 16	8 - 12 (1.160 - 1.740 psi)	10 - 20	approx. 3	-60°C to +150°C (-76°F to +302°F)
AN 302-42	14 - 18	5 - 8	8 - 12 (1.160 - 1.740 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-43	17 - 22	8 - 12	9 - 13 (1.305 - 1.885 psi)	10 - 20	1 - 3	-60°C to +150°C (-76°F to +302°F)
New AN 302-44	8 - 12 ²	5 - 8 ²	9 - 13 (1.305 - 1.885 psi)	20 - 40 ²	4 - 8 ²	-60°C to +150°C (-76°F to +302°F)
AN 302-50	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C to +175°C (-76°F to +347°F)
AN 302-60	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C to +180°C (-76°F to +356°F)
AN 302-62	20 - 25	40 - 55	10 - 15 (1.450 - 2.175 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-70	28 - 35	50 - 65	15 - 20 (2.175 - 2.900 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-71	28 - 35	50 - 65	15 - 20 (2.175 - 2.900 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-72	20 - 30	40 - 75	10 - 15 (1.450 - 2.175 psi)	20 - 40	5 - 10	-60°C to +230°C (-76°F to +446°F)
AN 302-90	15 - 25	30 - 40	8 - 12 (1.160 - 1.740 psi)	5 - 20	approx. 3	-60°C to +150°C (-76°F to +302°F)
NSF AN 301-65	4 - 8	1 - 3	2 - 6 (290 - 870 psi)	10 - 20	24	-60°C to +150°C (-76°F to +302°F)
NSF AN 301-72	5 - 10	4 - 6	5 - 7 (725 - 1.015 psi)	15 - 30	6 - 12	-60°C to +150°C (-76°F to +302°F)
AN 302-25	5 - 8	2 - 4	3 - 5 (435 - 725 psi)	15 - 30	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-45	10 - 15	12 - 18	8 - 12 (1.160 - 1.740 psi)	15 - 30	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-75	40 - 50	40 - 50	15 - 25 (2.175 - 3.625 psi)	15 - 30	3 - 6	-60°C to +150°C (-76°F to +302°F)
AN 302-77	30 - 40	10 - 15	35 - 45 (5.075 - 6.525 psi)	40 - 60	6 - 12	-60°C to +150°C (-76°F to +302°F)
AN 302-80	35 - 45	50 - 70	20 - 30 (2.900 - 4.350 psi)	2 - 5	2 - 4	-60°C to +180°C (-76°F to +356°F)
AN 305-11	7 - 10	2 - 4	4 - 6 (580 - 870 psi)	20 - 40	5 - 10	-60°C to +150°C (-76°F to +302°F)
AN 305-42	12 - 15	18 - 22	8 - 12 (1.160 - 1.740 psi)	10 - 20	2 - 4	-60°C to +150°C (-76°F to +302°F)
AN 305-67	3 - 5	2 - 4	6 - 8 (1.160 - 1.740 psi)	120 - 240	24 - 72	-50°C to +175°C (-58°F to +347°F)
AN 305-72	7 - 10	2 - 4	4 - 6 (580 - 870 psi)	20 - 40	5 - 10	-60°C to +150°C (-76°F to +302°F)
AN 305-77	18 - 22	10 - 14	6 - 13 (870 - 1.885 psi)	15 - 30	1 - 3	-60°C to +150°C (-76°F to +302°F)
New AN 305-78	11 - 16 ²	4 - 7 ²	6 - 13 (870 - 1.885 psi)	25 - 50 ²	4 - 8 ²	-60°C to +150°C (-76°F to +302°F)
AN 305-86	15 - 30	25 - 45	10 - 20 (1.450 - 2.900 psi)	60 - 90	12 - 24	-60°C to +150°C (-76°F to +302°F)
NSF AN 301-38	30 - 40	45 - 60	20 - 25 (2.900 - 3.625 psi)	approx. 5	2 - 4	-60°C to +150°C (-76°F to +302°F)
NSF AN 301-48	25 - 30	40 - 55	25 - 30 (3.625 - 4.350 psi)	2 - 6	2 - 4	-60°C to +175°C (-76°F to +347°F)
AN 306-00	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C bis +175°C (-76°F bis +347°F)
AN 306-01	25 - 30	50 - 60	18 - 23 (2.610 - 3.335 psi)	10 - 20	2 - 4	-60°C bis +150°C (-76°F bis +302°F)
AN 306-03	25 - 30	50 - 60	15 - 18 (2.175 - 2.610 psi)	10 - 20	2 - 4	-60°C bis +150°C (-76°F bis +302°F)
AN 306-10	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C bis +180°C (-76°F bis +356°F)
AN 306-20	28 - 36	40 - 55	15 - 25 (2.175 - 3.625 psi)	20 - 40	ca. 24	-60°C bis +200°C (-76°F bis +392°F)
AN 306-30	35 - 45	50 - 70	20 - 30 (2.900 - 4.350 psi)	2 - 5	2 - 4	-60°C bis +180°C (-76°F bis +356°F)
AN 306-38	35 - 45	50 - 70	25 - 30 (3.625 - 4.350 psi)	ca. 5	1 - 3	-60°C bis +150°C (-76°F bis +302°F)
AN 306-40	20 - 30	30 - 40	15 - 30 (2.175 - 4.350 psi)	ca. 240	ca. 24	-60°C bis +200°C (-76°F bis +392°F)
AN 306-41	12 - 15	17 - 22	8 - 12 (1.160 - 1.740 psi)	10 - 20	3 - 6	-60°C bis +150°C (-76°F bis +302°F)
AN 306-48	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	ca. 5	2 - 4	-60°C bis +180°C (-76°F bis +347°F)
AN 306-50	35 - 45	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C bis +150°C (-76°F bis +302°F)
AN 306-60	35 - 45	10 - 20	25 - 30 (3.625 - 4.350 psi)	15 - 30	3 - 6	-60°C bis +150°C (-76°F bis +302°F)
NSF AN 301-65	4 - 8	1 - 3	2 - 6 (290 - 870 psi)	10 - 20	24	-60°C to +150°C (-76°F to +302°F)
NSF AN 301-72	5 - 10	4 - 6	5 - 7 (725 - 1.015 psi)	15 - 30	6 - 12	-60°C to +200°C (-76°F to +392°F)
AN 305-10	18 - 25	15 - 25	5 - 10 (725 - 1.450 psi)	15 - 30	6 - 12	-60°C to +200°C (-76°F to +392°F)
AN 305-18	12 - 18	18 - 24	8 - 13 (1.160 - 1.885 psi)	10 - 20	3 - 6	-60°C to +200°C (-76°F to +392°F)
AN 305-67	3 - 5	2 - 4	6 - 8 (1.160 - 1.740 psi)	120 - 240	24 - 72	-50°C to +175°C (-58°F to +347°F)
AN 305-72	7 - 10	2 - 4	4 - 6 (580 - 870 psi)	20 - 40	5 - 10	-60°C to +150°C (-76°F to +302°F)
AN 305-73	6 - 10	2 - 5	4 - 6 (580 - 870 psi)	20 - 40	approx. 12	-60°C to +150°C (-76°F to +302°F)
AN 305-74	16 - 24	5 - 10	5 - 10 (725 - 1.450 psi)	15 - 30	approx. 12	-60°C to +180°C (-76°F to +356°F)

Technical Data

WEICONLOCK (Cured)	WEICONLOCK (Liquid)
<ul style="list-style-type: none"> • Admissible surface pressure for high-strength types • E-Modul 1) for high-strength types • Coefficient of elongation • Coefficient of them conductivity • Specific forward resistance • Dielectric coefficient • Dielectric strength • Temperature of decomposition • Chemically resistant against 	<ul style="list-style-type: none"> • Density • pH-value • Flashpoint (ISO 2592) • Vapour pressure at +25°C (+77°F) • Solubility • Storage life at +20°C (+68°F)
<ul style="list-style-type: none"> • approx. 450 N/mm² (65.000 PSI) (thickness below 0.06 mm) • approx. 180 N/mm² (26.000 PSI) (thickness below 0.25 mm) • approx. 1.400 N/mm² (200.000 PSI) • approx. 280 N/mm² (40.000 PSI) • approx. 8 · 10⁻³ $\frac{mm}{m \cdot min}$ • approx. 0.2 $\frac{mm}{cm}$ • approx. 10¹⁵ Ohm · cm • approx. 4 • approx. 10 kV/mm • from approx. +250°C (+482°F) • water, oil, fuel, organic solvents, refrigerants, gases 	<ul style="list-style-type: none"> • approx. 1,1 g/cm³ • < 7 • > +100°C (+212°F) • < 0,1 Torr • in acetone and similar products • approx. 12 month in original package

General physical data

WEICONLOCK (Liquid)

1) KTW test (Technologiezentrum Wasser TZW Karlsruhe) for use in drinking water

2) DVGW Certificate for use in gas supply and hot water systems

3) BAM Approval (Bundesanstalt für Materialforschung und -prüfung BAM) Tg-Nr. 4045996 - II 24/02 for gaseous oxygen up to max. +60°C (+140°F) operating temperature and 10 bar oxygen pressure

4) Australian Gas Association - Approval - Gas Class II 500 kPa

We do not recommend WEICONLOCK for long-term use on connections of copper and its alloys if exposed to water of more than +40°C (+104°F).

All recommendations and technical data are based on laboratory tests and extensive experiences by WEICON with greatest care but we take no warranty of any kind and accept no liability for the results obtained.

• lt = low thixotrope
• mt = medium thixotrope
• ht = high thixotrope

*2 Strength measured on V4A stainless steel screws



Features and advantages:

- For sealing the smoothly treated flanges of machine, gearbox and motor casing flanges
- To improve the performance of both old and new gaskets made from paper, cork, felt etc.
- Solvent free – odourless
- Remains permanently plastic, before and after assembly
- Easy joint dismantling
- Economical in use
- Very good resistance to most fuels, mineral oils, water, air, coolant mixtures based on methanol and glycol, antifreezes, kerosene, fluorocarbon refrigerants etc.
- Max. gap filling capability up to 0,10 mm (without a gasket)
- Non-sag can be applied to vertical surfaces
- Temperature resistant from -50°C to +200°C (-58 to +392°F) briefly up to +250°C (+482°F)

Plast-o-Seal®

NEW
230 g
press pack

Plast-o-Seal®

Permanently plastic universal sealant,
solvent free with no unpleasant odour
enables immediate assembly



90 g ✓
30000090
Tube

120 g ✓
30000120
Brush-top can

230 g ✓
30000230
Press pack

300 g ✓
30000300
Cartridge

Technical Data

Colour	Blue (fluorescent)
Specific weight at +20°C	1,15 g/cm ³
Viscosity at +25°C (+77°F) Brookfield	950.000 - 1.650.000 mPa·s
Gap filling capacity max.	max 0,10 mm without gasket
Working temperature	+5°C up to +35°C (+41 up to +95°F)
Basis	Polyester resin
Shelf life	24 months at room temperature (approx. +20°C/+68°F)
Temperature resistance	-50 up to +200°C (-58 up to +392°F) briefly up to +250°C (+482°F)



Optimisation of
a cork seal

- Compensates for manufacturing defects such as scoring and scratches enabling accurate assembly
- Allows accurate assembly and construction with low tolerances
- No need to overtighten fixings during assembly
- Non corrosive
- Neither contains any substances that disturb lacquer wettings (e.g. silicone)
- Fluorescent blue colour



Technical Data

Colour	red (RAL 3000), yellow (RAL 1021), green (RAL 6010)
Degree of gloss	matt
Viscosity at +25°C (+77°F) acc. Brookfield	1.500 mPa·s
Processing temperature	+5°C to +120°C (+41°F to 248°F)
Dust dry after	5 min.
Handling strength after	60 min.
Final strength after	12 h
Breakaway strength*	2,7 Nm
Temperature resistance	-20°C to +120°C (-4°F to 248°F)
Shelf life	12 months

*Strength values determined on screw M10 with full-area thread wetting

Threadlocking Varnish

Threadlocking Varnish

Protection and safety against manipulation

Threadlocking Varnish is a solvent-based, fast drying securing and marking varnish with good adhesion to many materials. The varnish serves as a removable lock, as protection against tampering by unauthorised persons, as a cover for electrically-conductive parts and as protection against corrosion and influencing through contact.

The threadlocking varnish is durable against water, petrol, diesel, mineral oil, paraffin oil and diluted acids and lyes.

The threadlocking varnish is essential for locking screw connections of all kinds, protecting against manipulation and unauthorised loosening of screws and connections, documenting quality assurance measures, production control and product inspection through a varnish seal and also for the visual inspection of connected, adjusted parts.

Threadlocking varnish is available in the colours yellow, green and red.

30 g ✓
30021030

yellow: RAL 1021*

30 g ✓
30022030

green: RAL 6010*

30 g ✓
30020030

red: RAL 3000*

*corresponds approximately to the specified RAL colours





Cyanoacrylate Adhesives

WEICON Cyanoacrylate Adhesives are coldcuring one-component adhesives, free of solvents. They quickly polymerise by reacting with moisture both on the surfaces to be bonded and from the air, and cure under light pressure.

They will bond within seconds almost all materials to and among each other, such as:

- Metals
- Plastics
- Glass
- Ceramics
- Wood
- Leather
- Natural and synthetic rubber

When using WEICON Cyanoacrylate Adhesives, unlike in the case of welding and soldering, surfaces remain unaltered. No material stress occurs. Thus, more simple and rapid assembly is often possible, and auxiliary fixing devices are not necessary.

The resulting advantages are numerous:

- Enormous time and, therefore, cost savings
- Immediate on-processing of fixed parts possible
- High bond strength up to material fracture
- Clean and optically appealing bondings

WEICON Cyanoacrylate Adhesives provide high structural strength, with a temperature resistance from -50°C (-58°F) to up to $+140^{\circ}\text{C}$ ($+284^{\circ}\text{F}$) and good levels of resistance to a lot of chemicals. In many instances, the cured bond joint proves to be harder than the material of the bonded parts (material fracture).

A wide range of product types is available for a variety of applications. The types differ chemically and by their viscosity.

Ethyl ester based types

Due to the size of the molecules and the resulting anchoring points positioned far from each other, a higher elasticity of the bond joint is achieved. These types are recommended for bonding plastics and rubber.

Alkoxy ethyl based types

Also with adhesives on this basis there is flexibility concerning the curing due to the similar molecule structure. However, its particular characteristic is its low odour and, therefore, user-friendly processability especially with assembly line manufacturing.

When cured, they are less sensitive to humidity and should be applied in those instances where the white “blooming” of the bond line is not tolerated for optical reasons.

Methyl ester based types

Due to their small molecule structure and closely positioned anchoring points, these types are less flexible after curing. Therefore, they offer particularly good application possibilities for bonding metals.

Technical product information, a table showing the various different types and basic information on cyanoacrylate adhesives are available on the following pages.

Continuous development and adaptation to the latest demands based on practical experience and the environment guarantee, furthermore, constantly high quality standards.

Bonding of plastics with WEICON Cyanoacrylate Adhesives

Thermoplastics, like for example polystyrene, styrene butadiene, styrene acryl nitrile, polymethylmethacrylate, polycarbonate and polyvinylchloride as well as polyamide, which are most frequently used in industry, can be bonded well with the right WEICON Cyanoacrylate Adhesive. With plastics like polyethylene, polypropylene, polyacetal, polytetrafluoroethylene and other fluorite hydrocarbons with their natural adhesive averse surfaces, an insufficient wetting of the surface takes place, and the adhesive cannot anchor itself to the surface structure. Only if these materials are pretreated with WEICON Contact Primer, their surfaces are activated and therefore able to bond.

Duroplastics like melamine formaldehyde resin, urea formaldehyde resin, epoxy and polyester resins can be bonded well with WEICON Contact; phenal formaldehyde resins, however, can only be bonded under certain conditions. For each type of plastic a specific strength results; that is why test bonding should always be carried out.

1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

Contact Primer for Polyolefines

Without pre-treatment, many plastics are unable to bond or bond only under certain conditions. When these plastics are pre-treated with WEICON Contact Primer, their surface structure changes. Thereby the joining of plastics, like polyethylene (PE) and polypropylene (PP) belonging to the polyolefine group, which are usually difficult to bond, is made possible. Even modern thermoplastic elastomers (TPE), PTFE and related plastics as well as silicones, can be bonded when pre-treated with WEICON Contact Primer.



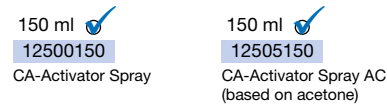
Contact Activator

The Activator speeds up the curing process of WEICON Cyanoacrylate Adhesives. When applied to absorbing surfaces, like for example wood or foam etc., and all chemically-treated surfaces, like for example zinc galvanized metals etc., the activator's effectiveness lasts approx. one minute.

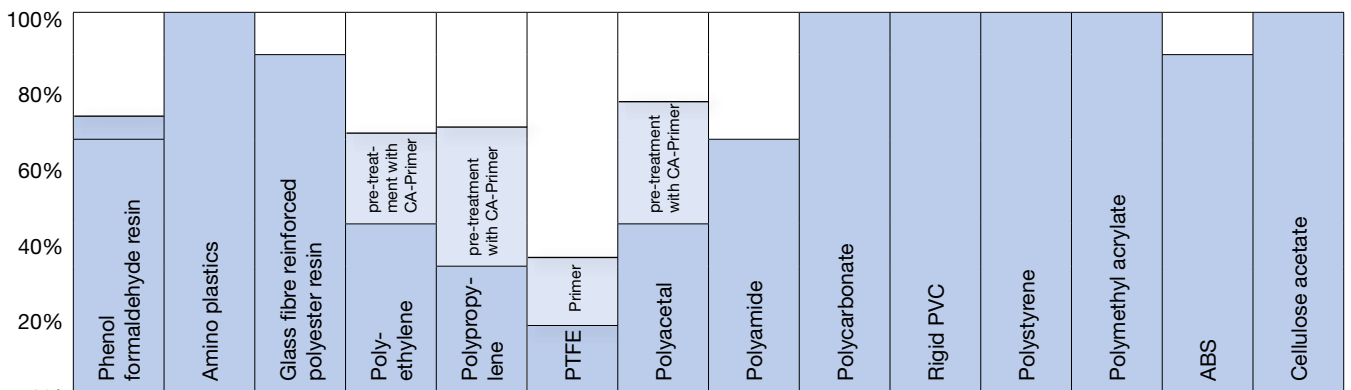
With non-absorbent surfaces the Activator's effectiveness lasts up to approx. 12 hours.

Use is recommendable with:

- Highly viscous WEICON Contact types
- Large thickness of the adhesive layer
- Absorbing and porous surfaces
- Passive materials (alkaline surfaces, like for example zinc coated metal parts).
- Disadvantageous environmental conditions (low temperatures, too low air humidity < 30%)



Combined tension and shear resistance



Test spec. DIN 53281: 100 x 25 x 1,5 mm
 Adhesive: WEICON Contact VA 8406
 Overlapping: 12 mm
 Pre-treatment: cleaned with WEICON Surface Cleaner and surface made coarse
 Bonding: Normal climate DIN 50014, +23°C (+73°F) and 50% rel. air humidity
 Test speed: 10 mm/min.





General Information

Directions for use

- To ensure a perfect bonding, the surfaces to be joined must be clean and dry (to clean and degrease use e.g. WEICON Surface Cleaner).
- Smooth surfaces should be mechanically roughened.
- Apply WEICON Contact Cyanoacrylate Adhesive only on one of the surfaces to be bonded.
- The bond line should be between 0.05 mm and max. 0.2 mm in thickness. Otherwise complete curing cannot be guaranteed.
- For bonding large surfaces WEICON Contact Cyanoacrylate Adhesive should be applied drop by drop to avoid inner tensions.
- WEICON Contact Cyanoacrylate Adhesives are very economical. One drop is sufficient to cover approx. 3 - 5 cm² of bonded surface.
- The parts to be joined should be bonded in an atmosphere of 40 - 80 % relative humidity. In conditions of below 40%, the cure will be considerably slowed or even inhibited. With a relative air humidity of more than 80% or with basic substrates (e.g. glass), shock-curing can occur. In such cases, some materials show a drop in bond strength of 10 - 15 %, due to inner tensions in the bond line.
- Basic-reacting surfaces (pH-value >7) will speed up the cure whereas acidic-reacting surfaces will retard and, under extreme conditions, completely inhibit the polymerization.

Physiological Properties

Health and safety at work

Physiologically, WEICON Cyanoacrylate Adhesives may be considered as essentially harmless. However, ensure sufficient ventilation of workplaces to cope with the adhesive's typical vapours. Vapours of WEICON Contact may cause irritation of the mucous membranes and the eyes. Avoid contact with skin and eyes (wear gloves and protective goggles). The use of WEICON Hand Protective Foam prevents skin irritation and hand cleaning problems

Storage

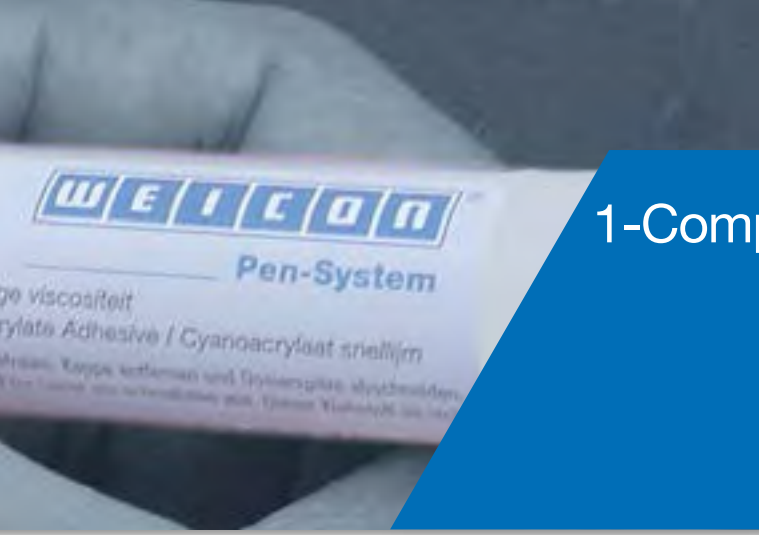
WEICON Cyanoacrylate Adhesives should always be stored in a cool, dry and dark place. The shelf life is at least 9 months if stored at room temperature (+18/+64°F to +25°C/+77°F). If stored at +5°C (+41°F) (e.g. in a refrigerator), the shelf life can be extended to 12 months.



Conversions

(°C x 1.8) +32 = °F	MPa x 145 = psi
kV/mm x 25.4 = V/mil	MPa x 0.145 = KSI
mm / 25.4 = inches	mPa·s = cP
µm / 25.4 = mil	N·m x 8.851 = lb·in
N x 0.225 = lb	N·m x 0.738 = lb·ft
N/mm x 5.71 = lb/in	N·mm x 0.142 = oz·in
N/mm x 5.71 = pli	kg x 2.2046 = lb
N/mm ² x 145 = psi	





1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

Type Selection Table

	VA 20	VA 8312	VA 8406	VA 100	VA 110	VA 1401	VA 300	VA 1500	GEL	VA 5000 THIX	VA 2500 HT	VA 30 Black	VA 250 Black	VA 1408	VA 1460	VA 1403	VM 20	VM 120	VM 2000
Metal	+	+	+	++	+	++	+	+	+	+	+	+	+	+	+	+	++	++	++
Plastic*	++	++	++	++	++	++	++	++	+	+	++	++	++	++	++	++	+	+	+
Rubber	++	++	++	++	++	++	+	++	+	+	++	++	++	++	++	+	+	+	+
EPDM Elastomers	+	+	++	+	+	++	+	+		+	+	+	+	+	+	+			
Wood	+			+	+	+	++	+	+	+	+	+	+	+		++			
Balsa-wood		+	+	+	+	+	+	+	++	+	+	+	+	+		++			
Glass / Ceramic	+		+	++	+	++	++	+	++	+	+	+	+	++	+	+			
Leather		+		++	+	++	++	++	++	+	+	+	+	+	+	++			

suitable (+)

highly suitable (++)



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



VA 20

Cyanoacrylate Adhesive for rubber and plastics low viscosity • very fast curing

WEICON Contact VA 20 has low viscosity (< 20 mPa·s) and hardens very quickly.

VA 20 is suited for the bonding of rubber and plastics and also for precisely fitted metal/plastic joints.

12 g ✓
12000012

30 g ✓
12000030

60 g ✓
12000060

500 g ✓
12000500



ISEGA

Certificate of Conformity as an adhesive
in food technology.

Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	< 20 mPa·s
Max. gap covering	0,1 mm
Initial adhesion on aluminium	30 - 60 sec.
Initial adhesion on Nora test rubber	2 - 15 sec.
Initial adhesion on Rigid PVC	5 - 60 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squating temp. +150°C (+302°F)

VA 100

Cyanoacrylate Adhesive for rubber and plastics medium viscosity • slightly longer curing

WEICON Contact VA 100 is a universal type for the bonding of metals, plastic and rubber, both to and among each other.

VA 100 is ideal for the „do-it-yourself“ area, but can also be used in many areas of industry.

3 g ✓
12050001

12 g ✓
12050012

30 g ✓
12050030

60 g ✓
12050060

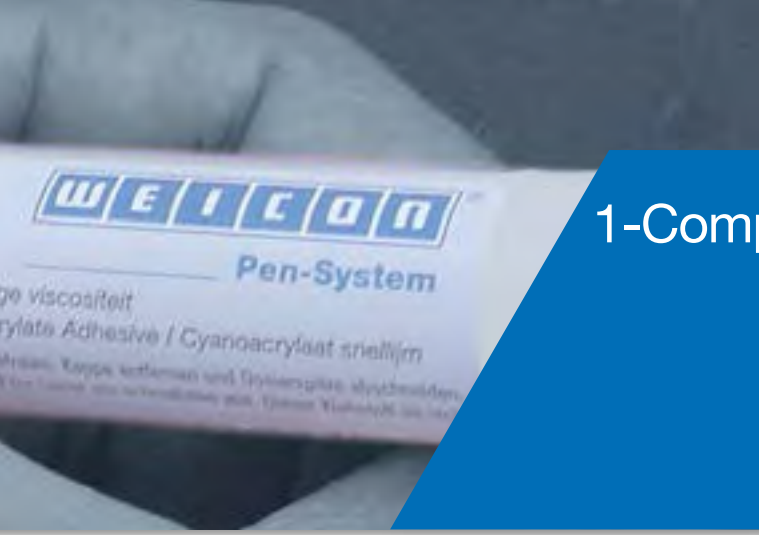
500 g ✓
12050500



Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	60 - 120 mPa·s
Max. gap covering	0,15 mm
Initial adhesion on aluminium	30 - 60 sec.
Initial adhesion on Nora test rubber	3 - 20 sec.
Initial adhesion on Rigid PVC	10 - 60 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squating temp. +150°C (+302°F)





1-Component Adhesives and Sealants

Cyanoacrylate Adhesives



Certificate of Conformity as an adhesive in food technology.

VA 8312

Cyanoacrylate Adhesive for rubber and plastics
 low viscosity • very fast-curing • ISEGA-certified

Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	20 - 40 mPa·s
Max. gap covering	0,1 mm
Initial adhesion on aluminium	30 - 60 sec.
Initial adhesion on Nora test rubber	2 - 10 sec.
Initial adhesion on Rigid PVC	5 - 30 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squattung temp. +150°C (+302°F)



WEICON Contact VA 8312 has low viscosity (20-40 mPa·s) and hardens very quickly. VA 8312 is suited for the bonding of various rubber materials such as solid rubber or cellular rubber, plastics and EDPM elastomers.

In combination with WEICON CA-Primer, VA 8312 can also be used for polyolefines (PE-polyethylene, PP-polypropylene). In combination with WEICON Contact Filler*, VA 8312 is suited for the instant bonding and filling of cracks, clefts, holes and uneven surfaces.

- 12 g ✓
12200012
- 30 g ✓
12200030
- 60 g ✓
12200060
- 500 g ✓
12200500

VA 5000 THIX

Cyanoacrylate Adhesive for rubber and plastics
 high viscosity (thixotrop) • longer cure

For porous and absorbing materials and larger tolerances. Suitable for metals, plastics, and rubber, even on vertical surfaces.

- 12 g ✓
12551012
- 30 g ✓
12551030
- 60 g ✓
12551060
- 500 g ✓
12551500



Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	approx. 25.000 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	30 - 70 sec.
Initial adhesion on Nora test rubber	5 - 10 sec.
Initial adhesion on Rigid PVC	25 - 50 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +90°C (-58 to approx. +194°F)

*

WEICON Contact Filler

Fillers for instant bonding and filling-in of clefts and cracks, holes as well as unlevelled surfaces in conjunction with WEICON Contact Adhesive VA 8312.

Contact Filler should be applied in layers:

Adhesive - Filler - Adhesive

After curing is completed, the material can be sanded and overpainted.

- 30 g ✓
12650030





VA 8406

Cyanoacrylate Adhesive for rubber and plastics
low viscosity • very fast-curing

WEICON Contact VA 8406 has low viscosity (20-50 mPa·s) and hardens very quickly. It is suited for the fast fixing and bonding of various rubber materials such as solid rubber or cellular rubber, plastics and EPDM elastomers requiring quick fixing.

In combination with WEICON CA-Primer, VA 8406 can also be used for polyolefines (PE-polyethylene, PP-polypropylene) and for PTFE and silicones.



Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	20 - 50 mPa·s
Max. gap covering	0,1 mm
Initial adhesion on aluminium	2 - 10 sec.
Initial adhesion on Nora test rubber	< 5 sec.
Initial adhesion on Rigid PVC	2 - 10 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squatting temp. +150°C (+302°F)

12 g ✓
12204012

30 g ✓
12204030

60 g ✓
12204060

500 g ✓
12204500

VA 1401

Cyanoacrylate Adhesive for rubber and plastics
medium viscosity • fast-curing

WEICON Contact VA 1401 has medium viscosity (100-150 mPa·s) and hardens quickly. It shows good results on fabric, paper, cardboard, cartons, foam rubber and large-pored elastomers.

VA 1401 is a universal type for the bonding of metals, plastics and rubber, both to themselves and among each other.

12 g ✓
12054012

30 g ✓
12054030

60 g ✓
12054060

500 g ✓
12054500



Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	100 - 150 mPa·s
Max. gap covering	0,15 mm
Initial adhesion on aluminium	2 - 10 sec.
Initial adhesion on Nora test rubber	< 5 sec.
Initial adhesion on Rigid PVC	2 - 10 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +120°C (-58 to approx. +248°F) (briefly to +150°C/+302°F) squatting temp. +170°C (+338°F)

1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

VA 300

Cyanoacrylate Adhesive for rubber and plastics higher viscosity • longer curing

WEICON Contact VA 300 has a higher viscosity (200-300 mPa·s) and a longer curing time. It is particularly suited for absorbent and porous products such as wood, cork, leather and ceramics.

VA 300 is also suited for the bonding of metals, plastics and rubber, both to themselves and among each other.

12 g ✓ 12100012	30 g ✓ 12100030	60 g ✓ 12100060
		500 g ✓ 12100500



Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	200 - 300 mPa·s
Max. gap covering	0,15 mm
Initial adhesion on aluminium	60 - 90 sec.
Initial adhesion on Nora test rubber	2 - 10 sec.
Initial adhesion on Rigid PVC	10 - 60 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squatting temp. +150°C (+302°F)

VA 1500

Cyanoacrylate Adhesive for rubber and plastics high viscosity • slow-curing

WEICON Contact VA 1500 is highly viscous (1000-1500 mPa·s) and has a slower curing time. The product is suited for the bonding of rubber and plastics and can also be used on absorbent and porous materials such as wood, cork, leather and ceramics.

12 g ✓ 12150012	30 g ✓ 12150030	60 g ✓ 12150060
		500 g ✓ 12150500



Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	1.000 - 1.500 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	90 - 120 sec.
Initial adhesion on Nora test rubber	5 - 30 sec.
Initial adhesion on Rigid PVC	10 - 120 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squatting temp. +150°C (+302°F)





VM 20

Cyanoacrylate Adhesive for metals low viscosity • very fast-curing

WEICON Contact VM 20 has a low viscosity (20-40 mPa·s) and hardens very quickly. It is suited for all types of metal bonds, especially for the bonding of precisely fitted parts in serial production.

VM 20 can be used in the metalworking industry, in machine construction, in housing and apparatus engineering and in many other applications.

- 30 g ✓
12300030
- 60 g ✓
12300060
- 500 g ✓
12300500



Technical Data

Ester type	Methyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	20 - 40 mPa·s
Max. gap covering	0,1 mm
Initial adhesion on aluminium	50 - 70 sec.
Initial adhesion on Nora test rubber	10 - 60 sec.
Initial adhesion on Rigid PVC	30 - 120 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squatting temp. +150°C (+302°F)

VM 120

Cyanoacrylate Adhesive for metals medium viscosity • slower curing, a short-term realignment of parts is possible

WEICON Contact VM 120 has a medium viscosity (100-130 mPa·s) and a longer curing time allowing short-term position corrections of the parts to be bonded.

WEICON Contact VM 120 is suited for all types of metal bonds.

WEICON Contact VM 120 can be used in the metalworking industry, in machine construction, in housing and apparatus engineering and in many other applications.

- 30 g ✓
12350030
- 60 g ✓
12350060
- 500 g ✓
12350500



Technical Data

Ester type	Methyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	100 - 130 mPa·s
Max. gap covering	0,15 mm
Initial adhesion on aluminium	50 - 70 sec.
Initial adhesion on Nora test rubber	10 - 60 sec.
Initial adhesion on Rigid PVC	30 - 120 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squatting temp. +150°C (+302°F)



500 g bottle

1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

VM 2000

Cyanoacrylate Adhesive for metals
high viscosity • slow-curing, allows realignment of parts

WEICON Contact VM 2000 is highly viscous (1700-2000 mPa•s) and hardens slowly, which enables position correction of the parts to be bonded.

VM 2000 is suited for all types of metal bonds and can also be used on absorbent and porous products.

30 g ✓
 12400030

60 g ✓
 12400060

500 g ✓
 12400500



Technical Data

Ester type	Methyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	1.700 - 2.000 mPa•s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	70 - 90 sec.
Initial adhesion on Nora test rubber	10 - 90 sec.
Initial adhesion on Rigid PVC	30 - 150 sec.
Final strength after	24 h
Temperature resistance	-50 to approx. +80°C (-58 to approx. +176°F) (briefly to +100°C/+212°F) squatting temp. +150°C (+302°F)





VA 2500 HT

**Cyanoacrylate Adhesive for special requirements • high temperature resistant
high viscosity • slow-curing • residual elasticity after curing • high peel and impact resistance**

WEICON Contact VA 2500 HT is highly viscous (2000-3000 mPa·s) and temperature resistant between -50°C (-58°F) and +140°C (+284°F). It hardens slowly with residual elasticity and has high peel and impact strength. Thanks to its curing with residual elasticity, WEICON Contact VA 2500 HT is particularly suitable under changing climatic conditions. It is insensitive even under a longer influence of humidity. VA 2500 HT is suited for the bonding of the most diverse rubber materials and plastics and also for metal/plastic joints.



Technical Data

Ester type	Ethyl
Condition / nature	opaque
Viscosity at +20°C (+68°F) Brookfield	2.000 - 3.000 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	40 - 80 sec.
Initial adhesion on Nora test rubber	25 - 60 sec.
Initial adhesion on Rigid PVC	25 - 100 sec.
Final strength after	24 h
Temperature resistance	-55 to +140°C (-67 to +284°F) squatting temp. +160°C (+320°F)

12 g ✓ 12550012	30 g ✓ 12550030	60 g ✓ 12550060	500 g ✓ 12550500
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VA 30 Black

**Cyanoacrylate Adhesive for special requirements • rubber-filled • high temperature resistant
medium viscosity • longer curing • residual elasticity after curing • high peel and impact resistance**

WEICON Contact VA 30 Black has medium viscosity (300 mPa·s) and is temperature resistant between -50°C (-58°F) and +140°C (+284°F). It has a longer curing time, is rubber-filled and black, hardens with residual elasticity and has high peel and impact strength. Thanks to its curing with residual elasticity, WEICON Contact VA 30 Black is particularly suitable under changing climatic conditions. It is insensitive even under a longer influence of humidity.



Technical Data

Ester type	Ethylester
Condition / nature	black
Viscosity at +20°C (+68°F) Brookfield	250 - 300 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	40 - 50 sec.
Initial adhesion on Nora test rubber	5 - 10 sec.
Initial adhesion on Rigid PVC	5 - 10 sec.
Final strength after	24 h
Temperature resistance	-55 to +140°C (-67 to +284°F) squatting temp. +160°C (+320°F)

12 g ✓ 12603012	30 g ✓ 12603030	60 g ✓ 12603060	500 g ✓ 12603500
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VA 30 Black is ideally suited for the bonding of diverse rubber materials such as solid rubber or cellular rubber, plastics and metal/plastic joints.

1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

VA 250 Black

Cyanoacrylate Adhesive for special requirements • rubber-filled • high temperature resistant high viscosity • slow-curing • residual elasticity after curing • high peel and impact resistance

Technical Data

Ester type	Ethyl
Condition / nature	black
Viscosity at +20°C (+68°F) Brookfield	2.000 - 3.000 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	90 - 120 sec.
Initial adhesion on Nora test rubber	20 - 40 sec.
Initial adhesion on Rigid PVC	40 - 80 sec.
Final strength after	24 h
Temperature resistance	-55 to +140°C (-67 to +284°F) squating temp. +160°C (+320°F)

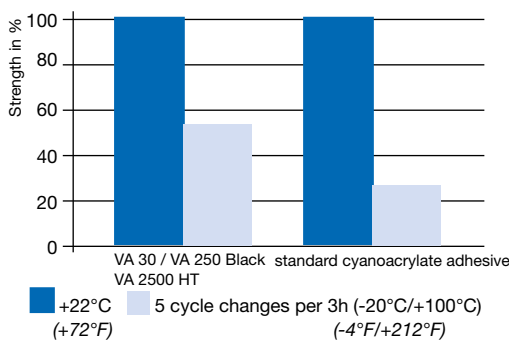


VA 250 Black is highly viscous (2000-3000 mPa·s) and temperature resistant between -50°C (-58°F) and +140°C (+284°F). It hardens slowly and with residual elasticity, is rubber-filled and black, and has high peel and impact strength.

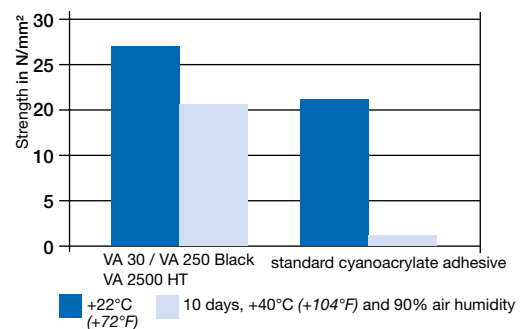
Thanks to its curing with residual elasticity, WEICON Contact VA 250 Black is particularly suitable under changing climatic conditions. It is insensitive even under a longer influence of humidity. It is best suited for the bonding of diverse rubber materials such as solid rubber or cellular rubber, plastics and metal/plastic joints.

- 12 g ✓
12600012
- 30 g ✓
12600030
- 60 g ✓
12600060
- 500 g ✓
12600500

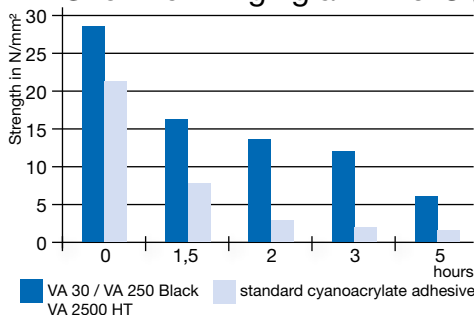
Temperature Change Load



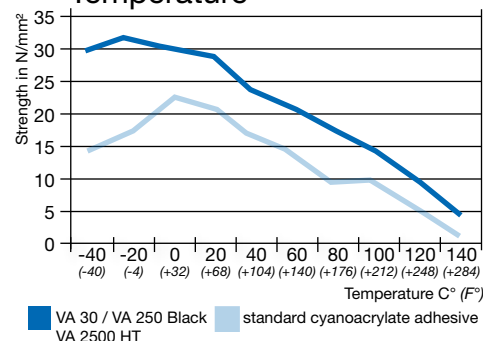
Humid Climate Resistance



Short-term Aging at +140°C (+284°F)



Strength Dependent on Temperature





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

VA 1408

Cyanoacrylate Adhesive for special requirements
low viscosity • very fast-curing • low odour and “blooming”

WEICON Contact VA 1408 has a low viscosity (20-40 mPa·s) and a reduced “blooming” effect. It hardens quickly, is low in odour when processing and less susceptible to moisture effects after curing. The product is suited for the clean and visually attractive bonding of the most diverse products.



Technical Data

Ester type	Alkoxy
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	20 - 40 mPa·s
Max. gap covering	0,1 mm
Initial adhesion on aluminium	30 - 60 sec.
Initial adhesion on Nora test rubber	3 - 20 sec.
Initial adhesion on Rigid PVC	10 - 30 sec.
Final strength after	24 h
Temperature resistance	-50 to +80°C (-58 to + 176°F) squatting temp. +150°C (+302°F)

30 g ✓
12253030

60 g ✓
12253060

500 g ✓
12253500

VA 1460

Cyanoacrylate Adhesive for special requirements
medium viscosity • longer curing • low odour and “blooming”

VA 1460 has a medium viscosity (120-200 mPa·s) and a reduced “blooming” effect. It hardens less quickly, is low in odour when processing and less susceptible to moisture effects after curing.

WEICON Contact VA 1460 is suited for the bonding of the most diverse products. The product can be used in numerous industrial applications.

30 g ✓
12250030

60 g ✓
12250060

500 g ✓
12250500



Technical Data

Ester type	Alkoxy
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	120 - 200 mPa·s
Max. gap covering	0,15 mm
Initial adhesion on aluminium	30 - 60 sec.
Initial adhesion on Nora test rubber	10 - 60 sec.
Initial adhesion on Rigid PVC	20 - 150 sec.
Final strength after	24 h
Temperature resistance	-50 to +80°C (-58 to + 176°F) squatting temp. +150°C (+302°F)

1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

VA 1403

Cyanoacrylate Adhesive for special requirements
 high viscosity • slow-curing • low odour and “blooming”

Technical Data

Ester type	Alkoxy
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	1.100 - 1.800 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	90 - 120 sec.
Initial adhesion on Nora test rubber	5 - 30 sec.
Initial adhesion on Rigid PVC	10 - 120 sec.
Final strength after	24 h
Temperature resistance	-50 to +80°C (-58 to +176°F) squating temp. +150°C (+302°F)



WEICON Contact VA 1403 is highly viscous (1100-1800 mPa·s), low in odour when processing and has a reduced “blooming” effect. It hardens slowly and is less susceptible to moisture effects after curing.

VA 1403 is suited for the clean and visually attractive bonding of the most diverse products.

30 g ✓
12252030

60 g ✓
12252060

500 g ✓
12252500





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



1-Component Adhesives and Sealants

Cyanoacrylate Adhesives



Clearance certificate for the direct use in the food industry, according to the NSF/ANSI (Standard 61)

VA 110

Cyanoacrylate Adhesive for rubber and plastics
medium viscosity • slightly longer cure

Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity at +20°C (+68°F) Brookfield	70 - 110 mPa·s
Max. gap covering	0,15 mm
Initial adhesion on aluminium	20 - 50 sec.
Initial adhesion on Nora test rubber	3 - 15 sec.
Initial adhesion on Rigid PVC	10 - 50 sec.
Final strength after	24 h
Temperature resistance	-30 (-22°F) to approx. +80°C (+176°F) squating temp. +160°C (+320°F)



The special feature of the product is its NSF approval in accordance with ANSI Standard 61 - Drinking Water System Components. Thus, VA 110 also meets the highest standards and can be used in sensitive areas such as in the pharmaceutical industry, in the manufacturing of cosmetics, in the food industry, in the manufacturing of toys or jewelry industry.

12 g ✓
12052012

30 g ✓
12052030

60 g ✓
12052060

500 g ✓
12052500

Contact GEL

Cyanoacrylate Adhesive for special requirements
pasty (highly thixotropic) • very slow-curing = position correction

Technical Data

Ester type	Ethyl
Condition / nature	colourless, clear liquid
Viscosity bei +25 °C (+77°F) in Brookfield	60.000 - 90.000 mPa·s
Max. gap covering	0,2 mm
Initial adhesion on aluminium	90 - 120 sec.
Initial adhesion on Nora test rubber	20 - 30 sec.
Initial adhesion on Rigid PVC	40 - 80 sec.
Final strength after	24 h
Temperature resistance	-50 to +80°C (-58 to + 176°F) squating temp. +150°C (+302°F)



20 g tube



Contact Gel is pasty (highly thixotropic; 60000-90000 mPa·s) and hardens very slowly. By using WEICON Activator Spray, the cure time can be reduced.

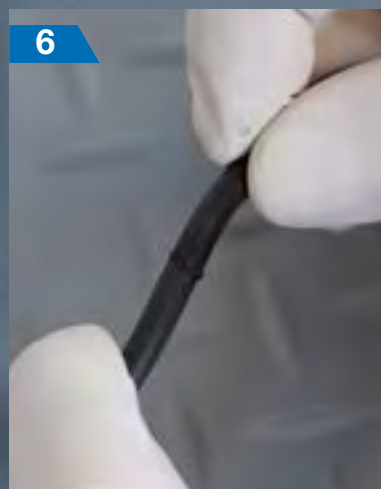
WEICON Contact Gel is suited for porous surfaces and higher tolerance gaps and can be used on vertical surfaces. Positioning is also possible after the parts have been joined.

WEICON Contact Gel is suited for the bonding of the most diverse products.

WEICON Contact Gel can be used both in the hobby sector and in model building. It can also be used in many different industrial applications.

20 g ✓
12500120

30 g ✓
12500130



1. Cut sealing material to size with the WEICON Safety Knife.
2. Prior to adhesion of the sealing materials clean with WEICON Surface Cleaner and leave to dry. Surface Cleaner evaporates completely without residue.
3. Pre-treat round cord made of silicone prior to adhesion with WEICON Contact Primer. To do this, brush a thin layer onto the surfaces to be bonded and leave to dry for 2 minutes.
4. Cut off the dosing tip with the WEICON Safety Knife.
5. Apply adhesive to one side.
6. Join the two ends of the sealing materials to fit and affix under slight pressure.

For special requirements

O-Ring Bonding Set

New

WEICON O-Ring Bonding Set

Using the WEICON O-Ring Bonding Set, sealing rings out of all common materials can be produced in no time.



Set ✓

12508030

WEICON O-Ring Bonding Set consists of:

- 12603012 **Contact VA 30 Black** 12 g
- 11207150 **Surface Cleaner** 150 ml
- 12450010 **Contact Primer** 10 ml
- 13250000 **WEICON Safety Knife**



Technical Data

WEICON Contact in liquid form

	VA 20	VA 8312	VA 8406	VA 100	VA 110	VA 1401	VA 300	VA 1500	GEL	VA 5000 THIX	VA 2500 HT	VA 30 Black	VA 250 Black	VA 1408	VA 1460	VA 1403	VM 20	VM 120	VM 2000	
Ester type	Ethyl													Alkoxy			Methyl			
Condition / nature	colourless, clear liquid, VA 2500 HT opaque, VA 30 Black and VA 250 Black																			
Properties	particularly suitable for rubber and plastic bonding								pasty		particularly suitable for rubber and plastic bonding			low odour, low blooming			particularly suitable for bonding metals			
Viscosity at +20°C (+68°F) (m.Pas.) Brookfield	< 20	20-40	20-50	60-120	70-110	100-150	200-300	1000-1500	60000-90000	20000-30000	2000-3000	250-300	2000-3000	20-40	120-200	1100-1800	20-40	100-130	1700-2000	
Max. gap covering in mm **	0,10	0,10	0,10	0,15	0,15	0,15	0,15	0,20	0,20	0,20	0,20	0,20	0,20	0,10	0,15	0,20	0,10	0,15	0,20	
Specific gravity at +20°C (+68°F) (g/cm³)	1,04	1,05	1,05	1,06	1,06	1,06	1,07	1,08	1,08	1,05	1,06	1,06	1,06	1,06	1,02	1,10	1,10	1,10	1,12	
Flash point acc. to Abel-Pensky DIN 55213 in °C	87°C (+189°F)																			
Initial adhesion* in seconds	Aluminium ¹⁾	30-60	30-60	2-10	30-60	20-50	2-10	60-90	90-120	90-120	30-70	40-80	40-50	90-120	30-60	30-60	90-120	50-70	50-70	70-90
	Nora Test rubber ²⁾	2-15	2-10	< 5	3-20	3-15	< 5	2-10	5-30	20-30	5-10	25-60	5-10	20-40	3-20	10-60	5-30	10-60	10-60	10-90
	Rigid PVC ³⁾	5-60	5-30	2-10	10-60	10-50	2-10	10-60	10-120	40-80	25-50	25-100	5-10	40-80	10-30	20-150	10-120	30-120	30-120	30-150
Final strength in hours	24																			



1-Component Adhesives and Sealants

Cyanoacrylate Adhesives

Technical Data

WEICON Contact in cured state

		VA 20	VA 8312	VA 8406	VA 100	VA 110	VA 1401	VA 300	VA 1500	GEL	VA 5000 THIX	VA 2500 HT	VA 30 Black	VA 250 Black	VA 1408	VA 1460	VA 1403	VM 20	VM 120	VM 2000	
Shear strength in N/mm ² according to DIN 53283 (ASTM D 1002 psi)	Sand-blasted Steel	19 (2.750)	20 (2.900)	22 (3.200)	20 (2.900)	20 (2.900)	22 (3.200)		21 (3.050)		22 (3.200)	24 (3.450)	22 (3.200)	24 (3.450)		18 (2.600)				25 (3.600)	
	Sand-blasted Aluminium	14 (2.050)	14 (2.050)	16 (2.300)	15 (2.175)	15 (2.175)	16 (2.300)		15 (2.175)		18 (2.600)	18 (2.600)	18 (2.600)	18 (2.600)		12 (1.750)				19 (2.750)	
	Rigid PVC	12 (1.750)	13 (1.900)	14 (2.050)	13 (1.900)	13 (1.900)	14 (2.050)		13 (1.900)		12 (1.750)	13 (1.900)	14 (2.050)	13 (1.900)		7 (1.000)				12 (1.750)	
	ABS	11 (1.600)	12 (1.750)	13 (1.900)	12 (1.750)	12 (1.750)	13 (1.900)		12 (1.750)		10 (1.450)	12 (1.750)	11 (1.600)	12 (1.750)		10 (1.450)				11 (1.600)	
	PC	12 (1.750)	13 (1.900)	13 (1.900)	13 (1.900)	13 (1.900)	13 (1.900)		12 (1.750)		12 (1.750)	13 (1.900)	13 (1.900)	13 (1.900)		8 (1.150)				12 (1.750)	
	NBR	> 8 (1.150) (bonding exceeds strength of substrate)																			
Temperature resistance			-50 to +80°C (-58 to +176°F) (briefly to +100°C/+212°F)			-50 to +120°C (-58 to +242°F) (briefly to +150°C/+302°F)		-50 to +80°C (-58 to +176°F) (briefly to +100°C/+212°F)			-50 to +90°C (-58 to +194°F)		-55 to +140°C (-67 to +284°F)			-50 to +80°C (-58 to +176°F) (briefly to +100°C/+212°F)					
Squatting temperature			+150°C (302°F)			+170°C (338°F)		+150°C (302°F)			-		+160°C (320°F)			+150°C (302°F)					
Refractive index n _D ²⁰	1.49 (similar to glass) / for types VA 2500 HT, VA 30 Black and VA 250 Black not applicable																				
Linear thermal expansion coefficient ISO 11359 / ASTM D 696 (K ⁻¹)	80 x 10 ⁻⁶																				
Specific forward resistance DIN 53482* / ASTM D 257 (Ω mm)	> 10 ¹⁵																				
Dielectric strength, DIN 53481* / ASTM D 149 (KV/mm)	25																				
Thermal conductivity ISO 8894-2 / ASTM C 177 (W/m•K)	0,1																				
Solubility	Dimethyl formamide, dimethyl sulfoxide, acetonitrile, alkali. Swelling is possible after long-time storage in ethyl acetate, acetone and methylene chloride.																				

*Achieved in normal climate DIN 50014 +23°C (+73°F) and 50% relative air humidity. Within the given time period, handling strength can be reached.
 ** These details are dependent on the type of material to be bonded and its properties
 *** Following the DIN-norm measured on bonding joints.

1) Aluminium. Type Al Cu Mg 2pl., not pre-treated
 2) NBR-rubber, smoothed
 3) Rigid PVC Trovidur® EN, not pre-treated



MS-Polymers

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Elastic Adhesives and Sealants





Elastic Adhesives and Sealants

Today elastic adhesives and sealants are used in many areas of industrial production and assembly. They combine the advantages of adhesive bonding and sealing technology and are used wherever the elasticity and the sealing of a joint are the most important requirements.

The focus of such applications is generally not an extremely high load transmission. Rather, dynamic loads like vibrations and expansion of the joined parts are to be absorbed and compensated. The use of elastic adhesives and sealants offers the following advantages for the user:

- Reduction and compensation of tensions, which result due to different thermal expansion of differing materials (metal/plastic, metal/wood, metal/glass, etc.)
- Compensation of joint part tolerances
- Avoidance of material fatigue and breaks due to an even distribution of tension
- No thermal or mechanical impairment, and therefore no weakening of the jointed parts
- Prevents the unwanted penetration or escaping of materials, even with larger joints or adhesive gaps
- Material-integrated joints between the parts

WEICON adhesive and sealants are classified in three product groups with a differing chemical basis.

MS Polymers:

- Strong adhesives and sealants for material-integrated joints of metals, plastics and many other substances
- High adhesive power, even without the use of adhesive primers
- Can be painted over ("wet in wet")
- Free of silicone and isocyanate

Polyurethanes:

- Adhesives and sealants for a broad range of applications in the fields of metals and plastics processing
- Can be painted over (after curing)
- Sandable
- Silicone-free
- Odourless curing

Silicones:

- High-quality sealants for industrial applications
- Excellent UV, weathering and media resistance
- Resistant to aging
- Can be used in the temperature range up to + 300°C (+572°F)



Elastic Adhesives and Sealants

Optimum bonding results with elastic one-component adhesives and sealants from WEICON are dependent on the careful preparation of the surfaces. Dust, dirt, rust, oil and lubricants and other impurities (e.g. release agent) have a negative effect on adhesion.

Therefore, the following points must always be observed prior to use:

Surface preparation

The surfaces must be clean and grease-free. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner.

For heavily soiled metal surfaces, we recommend WEICON Cleaner Spray S; WEICON Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues.

Surface pretreatment

Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer).



A mechanical surface pretreatment, e.g. sanding or sand-blasting, can considerably improve the adhesion.

Application

WEICON elastic one-component adhesives and sealants are supplied either in tubes or in Euro cartridges (Black-Seal also in 200 ml press pack). Euro cartridges are processed with a cartridge gun or with automatic dosing systems.

WEICON Speed-Flex should be applied only with professional-quality cartridge guns (WEICON Cartridge Gun „Special“).

Joining the parts to be bonded

To ensure optimum wetting, the parts must be joined before the first skin has been formed on the adhesive (skin-over time).

Curing

All elastic one-component adhesives and sealants from WEICON cure under the influence of humidity. The curing process starts at the surface and proceeds toward the inside. At 50 % relative humidity and +23°C (+73°F), the cure speed is approx. 3 mm in the first 24 hrs.

The 2-K system cures through the chemical reaction (polymerisation) of the two components. Adhesive bonds of big surfaces and high layer thicknesses cure more slowly since the humidity can not penetrate so fast to the inside if the outer layers have already cured.

Higher temperatures or higher humidity accelerate the curing, while lower temperatures or low humidity slow it down.

Resistance

WEICON elastic one-component adhesives and sealants are resistant to a large number of media when applied properly and after complete curing.

Storage

When unopened and stored in a normal climate (+23°C/+73°F and 50 % rel. humidity), WEICON elastic one-component adhesives and sealants have a shelf life of 9 - 12 months, depending on the type.



Flex 310 M® Classic

Suitable for universal use


WEICON Flex 310 M Classic adhesive and sealant is strong, overpaintable (wet in wet), sandable, has outstanding aging stability and good resistance to UV rays. It is resistant to freshwater and salt water and is free of silicone, isocyanate, halogens or solvents.

The product has an ISEGA certificate and can be used as an adhesive in food technology.


Flex 310 M Classic is an elastic adhesive on an MS polymer basis and is suitable for the bonding of metals, many plastics, ceramic, wood, glass and stone.

WEICON Flex 310 M Classic can be used in metal construction, tank and apparatus engineering, carriage, vehicle and container construction, ventilation and air conditioning systems, in the electrical industry, yacht and boat construction and in all applications where silicones or products containing silicones are not suitable.




310 ml 
13303310

white: RAL 9003*

310 ml 
13305310

grey: RAL 7000*

310 ml 
13304310

black: RAL 9004*

*corresponds approximately to the specified RAL colours



ISEGA

Certificate of Conformity as an adhesive
in food technology.

Technical Data

Basis	1 C.-Polyoxypropylene
Density	1,44 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	25 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-1%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore Hardness A (DIN 53505/ASTM D 2240) ±5	42
Elongation at break (DIN 53504/ASTM D412)	650 %
Tensile strength of the pure adhesive/sealant	3,3 N/mm ² (479 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	2,1 N/mm ² (305 psi)
Tear strength (DIN 53515/ASTM D 624)	20 N/mm ² (2.900 psi)
Movement capacity max.	15 %
Temperature resistance	-40 to +90°C (-40 to +194°F) briefly to +130°C (+266°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest after material app
Building material category (DIN 4102)	B 2



Elastic Adhesives and Sealants

MS-Polymers

ISEGACertificate of Conformity as an adhesive
in food technology.**Technical Data**

Basis	1 C.-Polyoxypropylene
Density	1,06 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-1%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	40
Elongation at break (DIN 53504/ASTM D412)	300 %
Tensile strength of the pure adhesive/sealant	3,0 N/mm ² (435 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	2,0 N/mm ² (290 psi)
Tear strength (DIN 53515/ASTM D 624)	19 N/mm ² (2.755 psi)
Movement capacity max.	20%
Temperature resistance	-40 to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +120°C (+248°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest after material app
Building material category (DIN 4102)	B 2

Flex 310 M® Crystal

Crystal-clear curing

310 ml
13308310
transparent

WEICON Flex 310 M Crystal adhesive and sealant is transparent, strong, overpaintable (wet in wet), sandable, has outstanding aging stability and good resistance to UV rays. It is resistant to freshwater and salt water and contains no silicone, isocyanate, halogens or solvents.

WEICON Flex 310 M Crystal has an ISEGA certificate and can be used as an adhesive in food technology.

WEICON Flex 310 M Crystal is an elastic adhesive on an MS polymer basis and is suitable for the bonding of glass, PC*, PMMA* and acrylic glass*, metals, many plastics, ceramics, wood and stone. The product is crystal clear after curing and is particularly suited for elastic joints where the adhesive should or must not be visible.

Flex 310 M Crystal can be used in plastic processing, metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, the electrical and lighting industry, in exhibition stand construction and shopfitting and in all applications where silicones or products containing silicones are not suitable.

* = Only tension-free bonding

Bonding of wall elements in the interior
construction of an exhibition hall



Flex 310 M® Stainless-Steel

Suitable for universal use

WEICON Flex 310 M Stainless-Steel adhesive and sealant is non-corrosive, strong, overpaintable (wet in wet), sandable, resistant to aging and UV rays and is free of silicone, isocyanate, halogens or solvents.

WEICON Flex 310 M Stainless-Steel has an ISEGA certificate and can be used as an adhesive in food technology.

WEICON Flex 310 M Stainless-Steel is an elastic adhesive on MS polymer basis and is suitable for bonding and sealing of seams and joints on metals such as stainless steel, aluminium and non-ferrous metals.

Flex 310 M Stainless-Steel can also be used in all application fields where the colour of the adhesive and sealant must match the surface material (e. g. stainless steel, aluminium, etc.).



290 ml ✓
13656290

stainless steel:
RAL 9023*

*corresponds approximately to the specified RAL colours

ISEGA

Certificate of Conformity as an adhesive in food technology.

WEICON Flex 310 M Stainless-Steel can be used in metal construction, tank and apparatus engineering, food industry, in kitchen and sanitary installations, ventilation and air conditioning systems, and in all applications where silicones or products containing silicones are not suitable.

Technical Data

Basis	1 K.-MS Polymer
Density	1,06 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-3%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	45
Elongation at break (DIN 53504/ASTM D412)	250%
Tensile strength of the pure adhesive/sealant	2,4 N/mm ² (348 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,8 N/mm ² (261 psi)
Tear strength (DIN 53515/ASTM D 624)	10 N/mm ² (1.450 psi)
Movement capacity max.	20%
Temperature resistance	-40 to +90°C (-40 to +194°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest after material app
Building material category (DIN 4102)	B 2

Bonding of stainless steel elements in elevators

Elastic Adhesives and Sealants

MS-Polymers



Flex 310 M® Liquid

Liquid, self-levelling

Flex 310 M Liquid is a self-levelling, one-component casting and coating mass based on polyoxypropylene.

Flex 310 M Liquid is permanently elastic and can be painted over after curing. The flexible adhesive and sealing substance cures odourless; is weather and UV-resistant, has excellent anti-aging properties and is free of silicone.

Flex 310 M Liquid can be used in diverse applications for adhesion and sealing of very different materials such as metals, many plastics, ceramics, wood, glass or stone and for insulation and impregnation.

The flexible adhesive and sealing substance can also be used in other industrial areas, such as in tank and apparatus construction, in car bodywork, container and vehicle construction, in pipeline and fittings construction, in the energy and electrical industries, in sound insulation and insulation technology and in plastics technology.



310 ml ✓

13333310

white: RAL 9003*

*corresponds approximately to the specified RAL colours

Technical Data

Basis	1 K.-MS Polymer
Density	1,48 g/cm ³
Viscosity	7.000 mPa.s
Stability/Run-off (ASTM D 2202)	liquid, self-levelling
Processing temperature	+5°C to +40°C (+41°F to +104°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 40% to 70% rel. humidity
Skin-overtime	40 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-9%
Gap filling up to max.	0,5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	43
Elongation at break (DIN 53504/ASTM D412)	400%
Tensile strength of the pure adhesive/sealant	2,2 N/mm ² (319 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,8 N/mm ² (261 psi)
Tear strength (DIN 53515/ASTM D 624)	11 N/mm ² (1.595 psi)
Movement capacity max.	10%
Temperature resistance	-40 to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +120°C (+248°F)
Overpaintable (liquid paint)	after complete curing
Building material category (DIN 4102)	B 2



Casting of a spotlight for sanitary areas



Flex 310 M® Super-Tack

High initial strength

WEICON Flex 310 M Super-Tack adhesive and sealant is very strong, non-corrosive, overpaintable (wet in wet), sandable, weather-resistant, resistant to UV rays and is free of silicone, isocyanate, halogens or solvents. Flex 310 M Super-Tack is a strong, elastic adhesive on an MS polymer basis. Both the very high initial bonding power and the fast development of adhesive strength enable bonds to be achieved even on vertical surfaces.

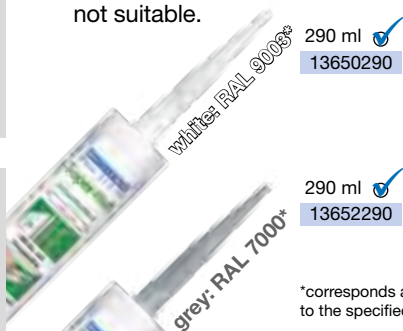
WEICON Flex 310 M Super-Tack is suitable for the bonding of metals, many plastics, ceramics, wood, glass and stone. It replaces screws, pegs, rivets and other traditional fixings.

Flex 310 M Super-Tack can be used for drywall and interior work, in metal construction, tank and apparatus engineering, ventilation and air conditioning systems, in yacht and boat constructions, exhibition stand construction and shopfitting and in all applications where silicones or products containing silicones are not suitable.



Technical Data

Basis	1 K.-MS Polymer
Density	1,62 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-2%
Gap filling up to max.	10 mm
Gap width up to max.	30 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	50
Elongation at break (DIN 53504/ASTM D412)	600%
Tensile strength of the pure adhesive/sealant	1,9 N/mm ² (276 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,5 N/mm ² (218 psi)
Tear strength (DIN 53515/ASTM D 624)	13 N/mm ² (1.885 psi)
Movement capacity max.	20%
Temperature resistance	-40 to +90°C (-40 to +194°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest after material app
Building material category (DIN 4102)	B 2



*corresponds approximately to the specified RAL colours



Elastic Adhesives and Sealants

MS-Polymers

Technical Data

Basis	1 K.-MS Polymer
Density	1,41 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	3-4 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	55
Elongation at break (DIN 53504/ASTM D412)	400%
Tensile strength of the pure adhesive/sealant	3,2 N/mm ² (464 psi)
Tear strength (DIN 53515/ASTM D 624)	21 N/mm ² (3.045 psi)
Temperature resistance	-40 to +90°C (-40 to +194°F) (permanently), 45 min. +180°C (+356°F), 30 min. +200°C (+392°F)
Thermal coating / powder coating	only after total cure (cure speed, see above)
Building material category (DIN 4102)	B 2

The ideal adhesive for

POWDER-
COATING310 ml ✓
13655310

grey: RAL 7000*

*corresponds
approximately to the
specified RAL colours

Flex 310 M® HT 200

High temperature resistant

The high temperature resistance makes it possible to bond and seal components needing to be subsequently thermal-coated (powder-coated).

WEICON Flex 310 M HT 200 can be used in metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, carriage, container, wagon and vehicle construction.

WEICON Flex 310 M HT 200 adhesive and sealant is highly temperature resistant, has outstanding ageing resistance, and is free of silicone, isocyanate, halogens or solvents.

Glued and (subsequently) powder-coated plant tubs.



Left side: uncoated. Right side: powder-coated material.



Flex 310 M[®] 2 K

Fast-curing

The WEICON Flex 310 M 2 K adhesive and sealant is very strong, non-corrosive, overpaintable (wet in wet), sandable, weather-resistant, resistant to UV rays and is free of silicone, isocyanate, or solvents.

Flex 310 M 2 K is a strong 2-component system on a hybrid polymer basis which enables full-surface bonding of larger parts and which can be used to fill gaps of up to ten millimetres. It is suitable for the bonding of almost all materials such as metal and many plastics.

WEICON Flex 310 M 2 K can be used in metal construction, tank and apparatus engineering, machine and system construction, in the furniture industry, in ventilation and air conditioning systems, in the electrical industry, yacht and boat construction and in all applications where silicones or products containing silicones are not suitable.



250 ml

13305250

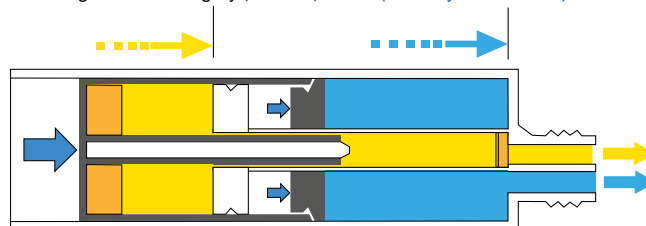
grey

Special Mixing Nozzle

13309997

Technical Data

Basis	2-K-hybrid-Polymer
Density	1,40 g/cm ³
Viscosity	solid paste
Processing temperature	+5 to +35°C (+41 to +95°F)
Pot life (at +23°C/+73°F and 50% rel. air humidity)*	approx. 5 min.
Working time*	approx. 10 min.
Set to load bearing*	approx. 60 min.
Cure type	chemical polymerisation
Volume change (DIN 52451)	approx. -1%
Gap filling up to max.	10 mm
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	40
Elongation at break (DIN 53504/ASTM D 412)	350%
Tensile strength of the pure adhesive/sealant	2,2 N/mm ² (319 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,3 N/mm ² (189 psi)
Temperature resistance	-40 to +90°C (-40 to +194°F)
Building material category (DIN 4102)	B 2 (normally inflammable)



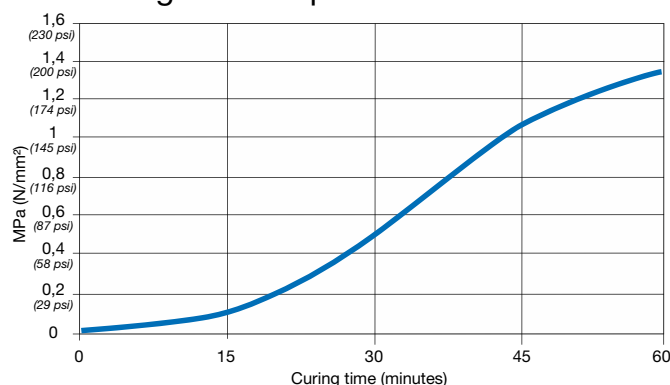
WEICON Flex 310 M[®] 2 K fast-curing in non-cured condition

Chemical basis	2-K-hybrid-Polymer
Density g/cm ³ (DIN 53504)	1,40
Viscosity	solid paste
Mixing ratio (volume)	1 : 1
Processing temperature	+5°C to +35°C (+41 to +95°F)
Cure type	chemical polymerisation
Pot life*1	approx. 5 minutes
Final hardness*1	approx. 60 minutes
Volume change (DIN 52451)*1	approx. -1 %
Gap filling	1,0 mm to max 10,0 mm

WEICON Flex 310 M[®] 2 K fast-curing in cured condition

Shore-A-Hardness (DIN 53505 / ASTM D 2240) +/- 5)	40	
Elongation at break % (DIN 53504 / ASTM D 412)	350	
Tensile strength of the pure adhesive/sealant (DIN 53504 / ASTM D 412)	2,2 N/mm ² (320 psi)	
Average tensile shear strength*2 (DIN 51504)	1,3 N/mm ² (190 psi)	
Fungicide	No	
Temperature resistance	-40°C to +90°C (-40 to +194°F)	
36 months outdoor exposure test	UV resistance	good
	Discolouring	slight
	Crack formation	none
	Dust absorption	slight
Building material category	B 2 (normally inflammable)	

Strength development Flex 310 M 2 K



Elastic Adhesives and Sealants

MS-Polymers

Solar-Flex®

Developed for solar industry

WEICON Solar-Flex® is strong, non-corrosive, overpaintable (wet in wet), weather-resistant and resistant to UV rays. It is free of silicone, isocyanate, halogens and solvents.

WEICON Solar-Flex® is an elastic adhesive on a MS polymer basis specially developed for the solar industry.

Both the very high initial bonding power and the fast development of adhesive strength enable bonds to be achieved even on vertical surfaces. Replaces traditional fixings in the assembly of solar and photovoltaic power systems.



290 ml ✓
13750290
white: RAL 9003*

290 ml ✓
13752290
grey: RAL 7000*

*corresponds approximately to the specified RAL colours



Technical Data

Basis	1 K.-MS Polymer
Density	1,62 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95 % rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-2 %
Gap filling up to max.	10 mm
Gap width up to max.	30 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	50
Elongation at break (DIN 53504/ASTM D412)	600%
Tensile strength of the pure adhesive/sealant	1,9 N/mm ² (276 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,5 N/mm ² (218 psi)
Tear strength (DIN 53515/ASTM D 624)	13 N/mm ² (1.885 psi)
Movement capacity max.	20%
Temperature resistance	-40 to +90°C (-40 to +194°F)
Overpaintable (liquid paint)	Only „wet in wet“, within 3 hrs. at the latest
Building material category (DIN 4102)	B 2





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



85 ml ✓
13350085
Tube
200 ml ✓
13350200
Press pack
white: RAL 9003*

85 ml ✓
13352085
Tube
200 ml ✓
13352200
Press pack
black: RAL 9004*

85 ml ✓
13351085
Tube
200 ml ✓
13351200
Press pack
grey: RAL 7000*

85 ml ✓
13353085
Tube
200 ml ✓
13353200
Press pack
transparent

*corresponds approximately to the specified RAL colours



13359185

Sales Display
with each 5 x 85 ml in the colours:

white,
black,
grey and
transparent



Elastic Adhesives and Sealants

MS-Polymers

NEW
200 ml
press pack

Flex+bond®

Highly elastic and strong

WEICON Flex+bond is strong, permanently elastic, temperature resistant from -40°C to $+90^{\circ}\text{C}$ (-40°F to $+194^{\circ}\text{F}$), weather resistant, resistant to UV rays, overpaintable (wet in wet), sandable, and resistant to ageing and salt water. It is free of silicone, isocyanate, halogens and solvents.

WEICON Flex+bond has an ISEGA certificate and can be used as an adhesive in foodstuff technology.

WEICON Flex+bond can be used to bond nearly all materials to themselves and among each other such as metal, wood, plastic, glass, and ceramics.



Bonding of aluminium profiles



Technical Data

	white, black, grey	transparent
Basis	1 C.-Polyoxypropylene	
Density	1,44 g/cm ³	1,06 g/cm ³
Viscosity	pasty	
Stability/Run-off (ASTM D 2202)	1 mm	<1 mm
Processing temperature	$+5$ to $+40^{\circ}\text{C}$ ($+41$ to $+104^{\circ}\text{F}$)	
Cure type	by humidity	
Curing condition	$+5$ to $+40^{\circ}\text{C}$ ($+41$ to $+104^{\circ}\text{F}$) and 30 % to 95 % rel. humidity	
Skin-overtime	25 min.	10 min.
Cure speed (first 24h)	2-3 mm	
Volume change (DIN 52451)	-1 %	
Gap filling up to max.	5 mm	
Gap width up to max.	25 mm	
Shelflife ($+5$ up to $+25^{\circ}\text{C}/+41$ up to $+77^{\circ}\text{F}$)	12 months	
Shore-A-Hardness (DIN 53505/ASTM D 2240) ± 5	42	40
Elongation at break (DIN 53504/ASTM D412)	650%	300%
Tensile strength of the pure adhesive/sealant	3,3 N/mm ² (479 psi)	3,0 N/mm ² (435 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	2,1 N/mm ² (305 psi)	2,0 N/mm ² (290 psi)
Tear strength (DIN 53515/ASTM D 624)	20 N/mm ² (2.900 psi)	19 N/mm ² (2.755 psi)
Movement capacity max.	15 %	20 %
Temperature resistance	-40 to $+90^{\circ}\text{C}$ (-40 to $+194^{\circ}\text{F}$)	
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest material app	
Building material category (DIN 4102)	B 2	

ISEGA

Certificate of Conformity as an adhesive in food technology.



Speed-Flex®

Replaces traditional fixings

WEICON Speed-Flex is very strong, pasty, stable, overpaintable (wet in wet), resistant to ageing, weathering, and UV rays and is free of silicone, isocyanate and halogen.

WEICON Speed-Flex has an ISEGA certificate and can be used as an adhesive in foodstuff technology.

WEICON Speed-Flex is an adhesive on an MS polymer basis with extremely strong initial strength and is suitable for the bonding of metals, many plastics, ceramics, wood, glass and stone.

Speed-Flex replaces traditional fixings such as screws, pegs, rivets, etc. The very high initial strength makes bonding possible even on vertical surfaces in indoor and outdoor areas.

WEICON Speed-Flex can be used for drywall and interior work, metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, in exhibition stand construction and shopfitting and in all applications where silicones or products containing silicones are not suitable.



310 ml ✓
13600310

white: RAL 9003*

310 ml ✓
13602310

grey: RAL 7000*

*corresponds approximately to the specified RAL colours

ISEGA

Certificate of Conformity as an adhesive in food technology.

Technical Data

Basis	1 K.- MS Polymer
Density	1,60 g/cm ³
Viscosity	extremely pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-1 %
Gap filling up to max.	5 mm
Gap width up to max.	5 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	58
Elongation at break (DIN 53504/ASTM D412)	230%
Tensile strength of the pure adhesive/sealant	2,2 N/mm ² (319 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,3 N/mm ² (189 psi)
Tear strength (DIN 53515/ASTM D 624)	10 N/mm ² (1.450 psi)
Movement capacity max.	15%
Temperature resistance	-40 to +80°C (-40 to +176°F), briefly (approx. 2 hours) to +120°C (+248°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest
Building material category (DIN 4102)	B 2

Bonding of advertising illumination



Elastic Adhesives and Sealants

MS-Polymers

ISEGACertificate of Conformity as an adhesive
in food technology.**Technical Data**

Basis	1 C.-Polyoxypropylene
Density	1,06 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	<1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	10 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-3%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	40
Elongation at break (DIN 53504/ASTM D412)	300 %
Tensile strength of the pure adhesive/sealant	3,0 N/mm ² (435 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	2,0 N/mm ² (290 psi)
Tear strength (DIN 53515/ASTM D 624)	19 N/mm ² (2.755 psi)
Movement capacity max.	20%
Temperature resistance	-40 to +90°C (-40 to +194°F), briefly (approx. 2 hours) to +120°C (+248°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest
Building material category (DIN 4102)	B 2

New**Speed-Flex® Crystal**

Crystal-clear adhesion

Speed-Flex Crystal is a quick-acting, strong and general-purpose power adhesive on MS polymer basis.

Due to its strong adhesive force, it can replace conventional fastening solutions such as screws, dowels or rivets. Speed-Flex Crystal is pasty and tight; thus even adhesions on vertical surfaces in interior and exterior areas can be easily carried out.

The new sealant and adhesive can be painted over „wet in wet“, has outstanding aging stability, is weather-resistant, UV-resistant and free of silicones, isocyanates, halogens and solvents.

Due to its crystal-clear curing properties, Speed-Flex Crystal is particularly suitable in areas which should remain visually appealing, where no adhesive seam should be visible. Thus e.g. transparent plastics, acrylic glass or other materials can be quickly, cleanly and appropriately connected with each other.

In addition, Speed-Flex Crystal is suitable for numerous other materials. Whether metals, plastics, concrete, marble, natural and artificial stone, ceramic, enamel, plaster, MDF, wood, chipboard, fibre and plasterboard panels - all these materials can be permanently fixed with each other and together using Speed-Flex Crystal.

Speed-Flex Crystal can be used in many industrial sectors, such as in drywall and interior construction, in metalworking, in tank and apparatus construction, in ventilation and air conditioning technology or in trade fair and shop construction.

310 ml ✓
13608310**New**WEICON
Cartridge Gun
„Special“
13250002

Aqua-Flex

Ideal for wet and moist surfaces

WEICON Aqua-Flex adhesive and sealant is strong, overpaintable (wet in wet), has outstanding ageing stability, and is resistant to weathering, UV rays, freshwater and salt water. It is free of silicone, isocyanate, halogens or solvents.

Aqua-Flex has an ISEGA certificate and can be used as an adhesive in foodstuff technology.

WEICON Aqua-Flex is an elastic adhesive and sealant on MS polymer basis for wet and damp substrates. It is suitable for the bonding of numerous materials such as metal, plastic, ceramics, wood, glass and stone.

Aqua-Flex can be used for pipeline and cable work, tank and apparatus engineering, in ventilation and air conditioning systems, gardening and landscaping, in sanitary installations and in all applications where silicones or products containing silicones are not suitable.



310 ml ✓
13700310
white: RAL 9003*

310 ml ✓
13701310
black: RAL 9004*

310 ml ✓
13702310
grey: RAL 7000*

*corresponds approximately to the specified RAL colours

ISEGA

Certificate of Conformity as an adhesive in food technology.

Technical Data

Basis	1 K.-MS Polymer
Density	1,44 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	25 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-1%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	42
Elongation at break (DIN 53504/ASTM D412)	650%
Tensile strength of the pure adhesive/sealant	3,3 N/mm ² (479 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	2,1 N/mm ² (305 psi)
Tear strength (DIN 53515/ASTM D 624)	20 N/mm ² (2.900 psi)
Movement capacity max.	15 %
Temperature resistance	-40 to +90°C (-40 to +194°F), briefly (approx. 2 hours) +130°C (+266°F)
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest
Building material category (DIN 4102)	B 2



Elastic Adhesives and Sealants

MS-Polymers

WEICON Primer M 100

250 ml
13550125

For pre-treating non-absorbent metal surfaces (aluminium, steel, stainless steel, brass, copper, zinc, tinplate), plastics (ABS, rigid PVC, PA 6.6, FRP, SMC, PUR), lacquered surfaces, enamel, ceramic, and glass



WEICON Primer K 200

250 ml
13550225

For pre-treating non-absorbent and lacquered surfaces, plastic materials (ABS, rigid PVC, PA 6.6, FRP, SMC, PUR), metals (aluminium, steel, stainless steel, brass, zinc, tinplate) and elastomers (EPDM).



WEICON Primer S 300

250 ml
13550325

For pre-treating absorbent and/or porous surfaces, like e.g. uncoated hardboards and plasterboards



WEICON Primer P 400

250 ml
13550425

For pre-treating non-absorbent low-energy surfaces, like e. g. plastics (PE, PP, TPE) and elastomers (EPDM).



WEICON Primer E 500

250 ml
13558025

Especially for silicone - for pre-treating non-absorbent surfaces such as aluminium, VA steel, brass, copper, zinc, tinplate and enamel, ceramic and glass as well as plastics such as ABS, PVC hard, PA6.6, GFC etc.



Primer applicator

13955050

For application of WEICON Primer.



Primer

Bonding agent

Even without the use of a primer, WEICON Elastic Adhesives and Sealants (on the basis of MS and hybrid polymers) achieve good bonding results on most material surfaces.

Smoothing Agent



Simple smoothing of many sealants

The Smoothing Agent is a transparent mixture of non-ionic surface activators. Applying it makes it possible to easily and cleanly smooth off all WEICON elastic adhesives and sealants such as silicone, MS polymers, polyurethane, etc. prior to skin formation.

500 ml
13559500
Spray bottle

5 L
13559505



Technical Data

	M 100	K 200	S 300	P 400	E 500
Basis:	Synthetic resin, with solvents	Synthetic resin, with solvents	Polyurethane, with solvents	rubber, with solvents and chloric	Silicone resin, contains solvent
Colour:	colourless, transparent	colourless, transparent	yellowish, transparent	amber, transparent	slightly yellowish, transparent
Content:	250 ml				
Density (g/cm ³):	0,79	0,77	1,03	0,80	0,78
Consumption (ml):	20 - 40	20 - 40	80 - 200	20 - 60	100
Processing temperature:	+10°C to +25°C (+50°F to +77°F)	+10°C to +35°C (+50°F to +95°F)	+5°C to +25°C (+41°F to +77°F)	-15°C to +35°C (+5°F to +95°F)	+10°C to +25°C (+50°F to +77°F)
Evaporation time (min):	approx. 10	approx. 10	approx. 60	approx. 10 - 60	approx. 60
Period of use (hrs.):	24	24	4	1	8
Suited for:	WEICON Adhesives and Sealants (except Silicones) WEICON Urethane				WEICON Silicone A, F and N WEICON HT-300 WEICON Black-Seal



Flex 310 RLT



Sealant for the air conditioning/ventilation construction and cleanroom technology

Flex 310 RLT is a special one-component adhesive and sealant based on polyurethane, which was developed for the specific requirements of air conditioning/ventilation construction and for cleanroom technology.

Flex 310 RLT complies with the requirements acc. VDI 6022 (sheet 1) and can be used in diverse applications on room air technical systems in buildings and rooms for bondings and sealings of very different materials such as metals, many plastics, ceramics, wood, glass or stone.

Flex 310 RLT is a permanently elastic and strong adhesive, and can be grounded and painted over after curing. The flexible adhesive and sealant cures odourless; it is weather and UV-resistant, has excellent aging stability, is pasty and free of silicone.



300 ml
 13322310

grey: RAL 7000*

*corresponds approximately to the specified RAL colours

Technical Data

Basis	1 K.-Polyurethane
Density	1,40 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 40% to 70 % rel. humidity
Skin-overtime	45 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-3%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	50
Elongation at break (DIN 53504/ASTM D412)	650%
Tensile strength of the pure adhesive/sealant	3 N/mm ² (435 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,8 N/mm ² (261 psi)
Tear strength (DIN 53515/ASTM D 624)	11 N/mm ² (1.595 psi)
Movement capacity max.	11%
Temperature resistance	-40 to +90°C (-40 to +194°F), briefly (approx. 2 hours) +120°C (+248°F)
Overpaintable (liquid paint)	after complete curing
Building material category (DIN 4102)	B 2

Sealing of a ventilation pipe

Elastic Adhesives and Sealants

Polyurethanes

Technical Data

Basis	1 K.-Polyurethane
Density	1,17 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +35°C (+41 to +95°F) and 40% to 70 % rel. humidity
Skin-overtime	45 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-6%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	9 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	45
Elongation at break (DIN 53504/ASTM D412)	450%
Tensile strength of the pure adhesive/sealant	2,0 N/mm ² (290 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,6 N/mm ² (232 psi)
Tear strength (DIN 53515/ASTM D 624)	9 N/mm ² (1.305 psi)
Movement capacity max.	10%
Temperature resistance	-40 to +90°C (-40 to +194°F), briefly (approx. 2 hours) +120°C (+248°F)
Overpaintable (liquid paint)	„wet in wet“ or after complete curing
Building material category (DIN 4102)	B 2

ISEGA

Certificate of Conformity as an adhesive in food technology.



Flex 310 PU

Polyurethane

WEICON Flex 310 PU adhesive and sealant is permanently elastic, strong, overpaintable, and resistant to weather, UV rays, freshwater and salt water. It is free of silicone.

Flex 310 PU is an elastic adhesive and sealant on Polyurethane basis (PUR) for the bonding and sealing of numerous materials such as metals, plastics, ceramics, wood, glass and stone.

Flex 310 PU can be used in tank and apparatus engineering, carriage, container and vehicle construction, in ventilation and air conditioning systems, the energy and electrical industry and in all applications where silicones or products containing silicones are not suitable.

300 ml ✓
13300310

white: RAL 9003*

300 ml ✓
13301310

black: RAL 9004*

300 ml ✓
13302310

grey: RAL 7000*

*corresponds approximately to the specified RAL colours

Technical Data

Basis	1 K.-Polyurethane
Density	1,50 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	>1 mm
Processing temperature	+5 to +40°C (+41 to +104°F)
Cure type	by humidity
Curing condition	+5 to +35°C (+41 to +95°F) and 40% to 70% rel. humidity
Skin-overtime	3 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	Increase %
Gap filling up to max.	10 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Tensile strength of the pure adhesive/sealant	10 N/mm ² (1.450 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	11 N/mm ² (1.595 psi)
Temperature resistance	-30 to +100°C (-22 to +212°F) WATT 91°C (+196°F)
Overpaintable (liquid paint)	„wet in wet“ or after complete curing
Building material category (DIN 4102)	B 2



310 ml ✓
13309310

Fast-Bond

Fast-curing, one-component structural and assembly adhesive for universal use on polyurethane basis (PUR)

Fast-Bond structural and assembly adhesive is strong, overpaintable, sandable, and resistant to weathering, UV rays, freshwater and salt water. It is free of silicone or solvents.

WEICON Fast-Bond is suitable for the bonding of MDF panels, wood panels, chipboards, fibre and plaster boards, concrete, marble, natural and artificial stone, ceramics, gypsum, metals and rigid foams.

beige: RAL 9010*

*corresponds approximately to the specified RAL colours

Silicone A

Acetate cross-linking

WEICON Silicone A adhesive and sealant contains no solvents, has acetate-cross-linking properties, is strong, permanently elastic, resistant to ageing and chemicals, temperature resistant up to +200°C (+392°F), extremely elastic (breaking elongation >500%) and can be used universally.

Silicone A adheres very well to steel, aluminium, glass, ceramics, and many additional materials.

WEICON Silicone A can be used in machine and system construction, ventilation and air conditioning systems, in the energy and electrical industry, in exhibition construction and shopfitting and in many additional industrial applications.

310 ml ✓

13001310

white: RAL 9003*

310 ml ✓

13003310

black: RAL 9017*

310 ml ✓

13002310

grey: RAL 7004*

85 ml ✓

13000085

transparent

310 ml ✓

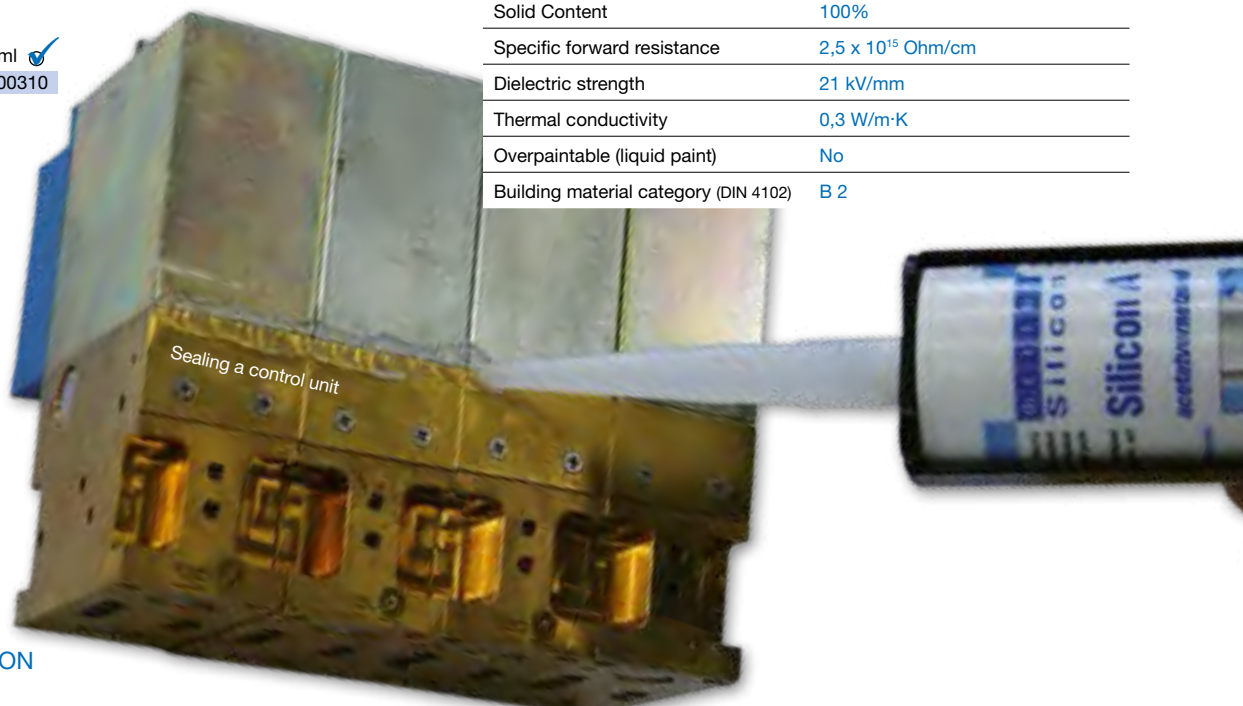
13000310

*corresponds approximately to the specified RAL colours



Technical Data

Basis	1 K.-Polysiloxan (Acetat)
Density	1,03 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95 % rel. humidity
Skin-overtime	7 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-1 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	20
Elongation at break (DIN 53504/ASTM D412)	>500%
Tensile strength of the pure adhesive/sealant	1,3 N/mm ² (189 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	0,8 N/mm ² (116 psi)
Tear strength (DIN 53515/ASTM D 624)	4,0 N/mm ² (580 psi)
Movement capacity max.	25%
Temperature resistance	-60 to +200°C (-76 to +392°F)
Solid Content	100%
Specific forward resistance	2,5 x 10 ¹⁵ Ohm/cm
Dielectric strength	21 kV/mm
Thermal conductivity	0,3 W/m-K
Overpaintable (liquid paint)	No
Building material category (DIN 4102)	B 2



Elastic Adhesives and Sealants

Silicones

Technical Data

	Silicone F	Silicone N
Basis	1 K.-Polysiloxane (Acetate)	1 K.-Polysiloxan (Oxime)
Density	1,03 g/cm ³	
Viscosity	11.000 mPa·s	pasty
Stability/Run-off (ASTM D 2202)	liquid	1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)	
Cure type	by humidity	
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity	
Skin-overtime	15 min.	7 min.
Cure speed (first 24h)	2-3 mm	
Volume change (DIN 52451)	-9%	-2%
Gap filling up to max.	2 mm	5 mm
Gap width up to max.	---	25 mm
Shelflife (+5 up to +25°C/ +41 up to +77°F)	12 months	
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	23	25
Elongation at break (DIN 53504/ASTM D412)	370%	800%
Tensile strength of the pure adhesive/sealant	1,8 N/mm ² (261 psi)	1,3 N/mm ² (189 psi)
Average tensile shear strength (DIN 53283/ ASTM D 1002)	0,8 N/mm ² (116 psi)	
Tear strength (DIN 53515/ASTM D 624)	3,6 N/mm ² (261 psi)	6,0 N/mm ² (870 psi)
Movement capacity max.	---	25%
Temperature resistance	-50 to +180°C (-58 to +356°F)	
Solid percentage	90%	100%
Specific forward resistance	7 x 10 ¹⁴ Ohm/cm	7 x 10 ¹⁶ Ohm/cm
Dielectric strength	16 kV/mm	15 kV/mm
Thermal conductivity	0,3 W/m·K	
Overpaintable (liquid paint)	No	
Building material category (DIN 4102)	B 2	

Silicone F

Liquid, self-levelling



310 ml ✓
13200310
transparent

WEICON Silicone F casting and sealing compound is liquid, self-levelling, spreadable, free of solvents and has acetate-cross-linking properties. It is resistant to weathering and ageing, temperature resistant up to +180°C (+356°F), extremely elastic (breaking elongation of approx. 370%) and can be used universally.

Silicone F can be specially used for elastic bonds, insulation and impregnation and even for the sealing and casting (max. 10 mm) of technical components. It adheres well to steel, aluminium, glass, ceramics, and many additional materials.

Silicone F can be used in machine and system construction, in plastic processing, the energy and electrical industry, in exhibition construction and shopfitting and in many additional industrial areas.

Silicone N

Neutral-curing



310 ml ✓
13400310
transparent

WEICON Silicone N adhesive and sealant is free of solvents, is neutrally vulcanizing, strong, permanently elastic, resistant to weathering, ageing and chemicals, temperature resistant up to +180°C (+356°F), extremely elastic (breaking elongation of approx. 800%) and can be used universally.

Silicone N adheres very well to all metals, glass, ceramics, and many additional materials.

WEICON Silicone N can be used in plastic processing, the electrical industry, energy technology, the lighting industry, exhibition construction and shopfitting and in many additional industrial areas.

WEICON Primer E 500

Especially for silicone - for pre-treating non-absorbent surfaces such as aluminium, VA steel, brass, copper, zinc, tinplate and enamel, ceramic and glass as well as plastics such as ABS, PVC hard, PA6.6, GFC etc.

250 ml ✓
13558025



New

HT 300

High temperature resistant

WEICON HT 300 adhesive and sealant is red, high-temperature resistant (+300°C/+572°F), free of solvents, strong, and has acetate-cross-linking properties. It is resistant to weathering, ageing and chemicals and is extremely elastic (breaking elongation of approx. 500%).

HT 300 is particularly suitable for heat-exposed bonds and seals and adheres very well to steel, aluminium, glass, ceramics and many additional materials.

HT 300 can be used in industrial furnaces, flue gas systems, heating installations, exhaust gas routing, heating cabinets and in many additional areas.

85 ml ✓

13050085

310 ml ✓

13050310

red: RAL 3016*

*corresponds approximately to the specified RAL colours

TÜV
SÜD OÜTÖCMLAUB



Technical Data

Basis	1 K.-Polysiloxane (Acetate)
Density	1,28 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	12 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-1%
Gap filling up to max.	5 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	35
Elongation at break (DIN 53504/ASTM D412)	500%
Tensile strength of the pure adhesive/sealant	2,0 N/mm ² (290 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,3 N/mm ² (189 psi)
Tear strength (DIN 53515/ASTM D 624)	6,0 N/mm ² (870 psi)
Movement capacity max.	15%
Temperature resistance	-60 to +280°C (-76 to +536°F) briefly (approx. 2 hours) +300°C (+572°F)
Solid percentage	100%
Specific forward resistance	2,5 x 10 ¹⁵ Ohm/cm
Dielectric strength	21 kV/mm
Thermal conductivity	0,3 W/m·K
Overpaintable (liquid paint)	No
Building material category (DIN 4102)	B 2

Sealing of heating systems

Elastic Adhesives and Sealants

Silicones

Black-Seal

Extremely resistant against oil and grease


WEICON Black-Seal adhesive and sealant is black, high-temperature resistant (+280°C/+536°F), free of solvents, strong, oil-resistant, grease-resistant, pressure-resistant, resistant to ageing and extremely elastic (breaking elongation of approx. 500%).


Black-Seal is suitable for bonding and sealing in applications where particularly high oil and grease resistance is required.


WEICON Black-Seal can be used on gearbox, valve and casing covers, oil sumps, water pumps, gears and axles, flanges, tanks and containers, and in many other areas.



black: RAL 9005*

85 ml 
13051085
tube

200 ml 
13051200
press pack

310 ml 
13051310
cartridge

*corresponds approximately to the specified RAL colours

Technical Data

Basis	1 K.-Polysiloxane (Acetate)
Density	1,06 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	>1 mm
Processing temperature	+5 to +35°C (+41 to +95°F)
Cure type	by humidity
Curing condition	+5 to +40°C (+41 to +104°F) and 30% to 95% rel. humidity
Skin-overtime	7 min.
Cure speed (first 24h)	2-3 mm
Volume change (DIN 52451)	-3%
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelflife (+5 up to +25°C/+41 up to +77°F)	12 months
Shore-A-Hardness (DIN 53505/ASTM D 2240) ±5	30
Elongation at break (DIN 53504/ASTM D412)	500%
Tensile strength of the pure adhesive/sealant	2,0 N/mm ² (290 psi)
Average tensile shear strength (DIN 53283/ASTM D 1002)	0,7 N/mm ² (102 psi)
Tear strength (DIN 53515/ASTM D 624)	4,0 N/mm ² (580 psi)
Movement capacity max.	15%
Temperature resistance	-50 to +280°C (-58 to +536°F) briefly (approx. 2 hours) +300°C (+572°F)
Solid percentage	96%
Specific forward resistance	2,5 x 10 ¹⁵ Ohm/cm
Dielectric strength	21 kV/mm
Thermal conductivity	0,3 W/m·K
Overpaintable (liquid paint)	No
Building material category (DIN 4102)	B 2



WEICON
Cartridge Gun
„Special“
13250002

New



Sealing of a cylinder head



Technical Data

WEICON Adhesives and Sealants in non-cured condition								
	Flex 310 M® Classic	Flex 310 M® Crystal	Flex 310 M® HT 200	Flex 310 M® Super-Tack	Flex 310 M® Stainless-steel	Flex 310 M® Liquid	Flex+bond®	
Basis:	One component MS-polymer							
RAL colour*1:	white 9003 grey 7000 black 9004	transparent/ crystal-clear	grey 7000	white 9003 grey 7000	stainless-steel 9023	white 9003	white 9003 grey 7000 black 9004	transparent/ crystal-clear
Content/Container:	310 ml cartridge		290 ml cartridge			310 ml cartridge	200 ml press pack, 85 ml tube	
Density g/cm³:	1,44	1,06	1,41	1,62	1,06	1,48	1,44	1,06
Viscosity:	pasty					7.000 mPa.s	pasty	
Stability/Run-off (ASTM D 2202) mm:	1	<1	<1	<1	<1	Liquid, self-levelling	1	<1
Processing temperature:	+5°C to +40°C*2 (+41 to +104°F)							
Cure type:	by humidity							
Curing condition:	+5°C to +40°C (+41 to +104°F) and 30% to 95% rel. humidity					+5°C to +40°C (+41 to +104°F) and 40% to 70% rel. humidity	+5°C to +40°C (+41 to +104°F) and 30% to 95% rel. humidity	
Skin-over time (minutes):*3	25	10	10	10	10	40	25	10
Cure speed:*3	2-3 mm in the first 24 hours							
Volume change (DIN 52451) %:*3	-1	-3	---	-2	-3	-9	-1	-3
Gap filling up to max. mm:	5	5	---	10	5	0,5	5	5
Gap width up to max. mm:	25	25	---	30	25	25	25	25
Shelf life in months: +5°C to +25°C (+41 to +77°F)	12							
WEICON Adhesives and Sealants in cured condition								
Shore-A-Hardness (DIN 53505 / ASTM D 2240):	42	40	55	50	45	43	42	40
Elongation at break (DIN 53504 / ASTM D 412) %:	650	300	400	600	250	400	650	300
Tensile strength of the pure adhesive/sealant (DIN 53504/ASTM D 412):	3,3 N/mm² (480 psi)	3,0 N/mm² (440 psi)	3,2 N/mm² (460 psi)	1,9 N/mm² (280 psi)	2,4 N/mm² (350 psi)	2,2 N/mm² (319 psi)	3,3 N/mm² (480 psi)	3,0 N/mm² (440 psi)
Average tensile shear strength (DIN 53283 / ASTM D 1002):*4	2,1 N/mm² (300 psi)	2,0 N/mm² (290 psi)	1,8 N/mm² (260 psi)	1,5 N/mm² (250 psi)	1,8 N/mm² (260 psi)	1,8 N/mm² (261 psi)	2,1 N/mm² (300 psi)	2,0 N/mm² (290 psi)
Tear strength (DIN 53515 / ASTM D 624):	20 N/mm² (2.900 psi)	19 N/mm² (2.760 psi)	21 N/mm² (3.050 psi)	13 N/mm² (1.890 psi)	10 N/mm² (1.450 psi)	11 N/mm² (1.595 psi)	20 N/mm² (2.900 psi)	19 N/mm² (2.760 psi)
Movement capacity max. %:	15	20	---	20	20	10	15	20
Fungicide:	No							
Temperature resistance:	-40°C to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +130°C (+266°F)	-40°C to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +120°C (+248°F)	-40°C to +90°C (-40 to +194°F) briefly (approx. 30 Min.) to +200°C (+392°F)	-40°C to +90°C (-40 to +194°F)	-40°C to +90°C (-40 to +194°F)	-40°C to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +120°C (+248°F)	-40°C to +90°C (-40 to +194°F)	-40°C to +90°C (-40 to +194°F)
Overpaintable:*5	only „wet in wet,“ within 3 hrs. at the latest after material application with suitable paint coating systems (except alkyd resin paints)					after complete curing	only „wet in wet,“ within 3 hrs. at the latest after material application with suitable paint coating systems (except alkyd resin paints)	
Building material category (DIN 4102):	B 2							
Possible primers:	see primer selection table on page 187							

*1 Corresponds approximately to the specified RAL colours.

*2 For easier processing, the cartridges, tubes, etc. should be heated to room temperature (+20°/+68°F) before use at low temperatures.

*3 Normal climate +23°C (+73°F) and 50% relative humidity in accordance with DIN 50014.

*4 Material combination aluminium/aluminium, cleaned and degreased with Cleaner S, 1 mm layer thickness, 10 mm per minute tearing speed, fast-bond beech/beech, without pretreatment, 1 mm layer thickness, 5 mm per minute tearing speed.

*5 The WEICON one-component adhesives and sealants listed above are free of substances that hinder the coating of lacquer, e.g. silicone. Thanks to the special composition, these can be painted over with suitable paint coating systems (no alkyd resin paints). However, to check the compatibility, suitability must always be determined individually in preliminary tests under the respective real-life conditions. This is essential due to the different compositions and the diversity of the substrates. The curing of the adhesives and sealants is only slightly delayed by a coating of paint.

Elastic Adhesives and Sealants

Technical Data

WEICON Adhesives and Sealants in non-cured condition							
	Aqua-Flex	Solar-Flex®	Speed-Flex®	Speed-Flex® Crystal	Flex 310 PU	Fast-Bond	Flex 310 RLt
Basis:	One-component MS-polymer				One-component polyurethane		
RAL-Colour*1:	white 9003 grey 7000 black 9004	white 9003 grey 7000	white 9003 grey 7000	transparent	white 9003 grey 7001 black 9005	beige 9010	grey 7000
Content/Container:	310 ml cartridge	290 ml cartridge	310 ml cartridge		300 ml cartridge	310 ml cartridge	300 ml cartridge
Density g/cm³:	1,44	1,62	1,60	1,06	1,17	1,50	1,40
Viscosity:	pasty		extremely pasty	pasty			
Stability/Run-off (ASTM D 2202) mm:	1	<1	<1	<1	1	>1	1
Processing temperature:	+5°C to +40°C*2 (+41 to +104°F)						
Cure type:	by humidity						
Curing condition:	+5°C to +40°C (+41 to +104°F) and 30% to 95% rel. humidity, Aqua-Flex also hardens under water				+5°C to +35°C (+41 to +95°F) and 40% to 70% rel. humidity	see Aqua-, Solar and Speed-Flex	+5°C to +40°C (+41 to +104°F) and 40% to 70% rel. humidity
Skin formation (minutes):*3	25	10	10	10	45	3	45
Cure speed:*3	2-3 mm in the first 24 hours						
Volume change (DIN 52451) %:*3	-1	-2	-1	-3	-6	Increase	-3
Gap filling up to max. mm:	5	10	5	5	5	10	5
Gap width up to max. mm:	25	30	5	25	25	---	25
Shelf life in months: +5°C to +25°C (+41 to +77°F)	12				9	12	
WEICON Adhesives and Sealants in cured condition							
Shore-A-Hardness (DIN 53505 / ASTM D 2240):	42	50	58	40	45	---	50
Elongation at break (DIN 53504 / ASTM D 412) %:	650	600	230	300	450	---	650
Tensile strength of the pure adhesive/sealant (DIN 53504 / ASTM D 412):	3,3 N/mm² (480 psi)	1,9 N/mm² (280 psi)	2,2 N/mm² (320 psi)	3,0 N/mm² (435 psi)	2,0 N/mm² (290 psi)	10 N/mm² (1.450 psi)	3 N/mm² (435 psi)
Average tensile shear strength (DIN 53283 / ASTM D 1002):*4	2,1 N/mm² (300 psi)	1,5 N/mm² (250 psi)	1,3 N/mm² (190 psi)	2,0 N/mm² (290 psi)	1,6 N/mm² (230 psi)	11 N/mm² (1.595 psi)	1,8 N/mm² (261 psi)
Tear strength (DIN 53515 / ASTM D 624):	20 N/mm² (2.900 psi)	13 N/mm² (1.890 psi)	10 N/mm² (1.450 psi)	19 N/mm² (2.755 psi)	9 N/mm² (1.310 psi)	---	11 N/mm² (1.595 psi)
Movement capacity max. %:	15	20	15	20	10	---	11
Fungicide:	No						
Temperature resistance:	-40°C to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +130°C (+266°F)	-40°C to +90°C (-40 to +194°F)	-40°C to +80°C (-40 to +176°F) briefly (approx. 2 hours) to +120°C (+248°F)	-40°C to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +120°C (+248°F)		-30°C to +100°C (-22 to +212°F) WATT 91	-40°C to +90°C (-40 to +194°F) briefly (approx. 2 hours) to +120°C (+248°F)
Overpaintable:*5	only „wet in wet,“ within 3 hours at the latest after material application with suitable paint coating systems (except alkyd resin paints)					wet in wet or after complete curing	
Building material category (DIN 4102):	B 2						
Possible primers:	see primer selection table on page 187					---	see primer selection table on page 187

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Technical Data

WEICON Adhesives and Sealants in non-cured condition						
	Silicone A		Silicone N	Silicone F	HT 300	Black-Seal
Basis:	One-component acetate		One-comp. oxime	One-component acetate		
RAL-Colour*1	transparent	white 9003 dusty grey 7037 black 9017	transparent opaque		red 3016	black 9005
Content/Container:	310 ml cartridge					200 ml press pack can
	85 ml tube		/		85 ml tube	
Density (g/cm³):	1,03	1,25	1,03	1,03	1,28	1,06
Viscosity:	pasty		pasty	11.000 mPa·s	pasty	pasty
Stability/Run-off (ASTM D 2202) mm:	1		1	liquid	1	>1
Processing temperature:	+5°C to +35°C*2 (+41 to +95°F)					
Cure type:	by humidity					
Curing condition:	+5°C to +40°C (+41 to +104°F) and 30% to 95% re. humidity					
Skin-over time (minutes):*3	7		7	15	12	7
Cure speed:*3	2-3 mm in the first 24 hours					
Volume change (DIN 52451) %:*3	-1		-2	-9	-1	-3
Gap filling up to max. mm:	5		5	2	5	5
Gap width up to max. mm:	25					
Shelf life in months: +5°C to +25°C (+41 to +77°F)	12					
WEICON Adhesives and Sealants in cured condition						
Shore-A-Hardness (DIN 53505 / ASTM D 2240):	20		25	23	35	30
Elongation at break (DIN 53504 / ASTM D 412) %:	>500		800	370	500	500
Tensile strength of the pure adhesive/sealant (DIN 53504 / ASTM D 412) N/mm²:	1,3 N/mm² (190 psi)		1,3 N/mm² (190 psi)	1,8 N/mm² (260 psi)	2,0 N/mm² (290 psi)	2,0 N/mm² (290 psi)
Average tensile shear strength (DIN 53283 / ASTM D 1002) :*4	0,8 N/mm² (120 psi)		0,8 N/mm² (120 psi)	0,8 N/mm² (120 psi)	1,3 N/mm² (190 psi)	0,7 N/mm² (100 psi)
Tear strength (DIN 53515 / ASTM D 624):	4,0 N/mm² (520 psi)		6,0 N/mm² (870 psi)	3,6 N/mm² (510 psi)	6,0 N/mm² (870 psi)	4,0 N/mm² (520 psi)
Movement capacity max. %:	25		25	/	15	15
Temperature resistance:	-60°C to +200°C (-76 to +392°F)		-40°C to +180°C (-40 to +356°F)	-50°C to +180°C (-58 to +392°F)	-60°C to +280°C (-76 to +536°F) briefly (approx. 2 hours) +300°C (+572°F)	-50°C to +280°C (-58 to +536°F) briefly (approx. 2 hours) +300°C (+572°F)
Solids content in %:	100		100	90	100	96
Specific forward resistance:	2,5 x 10 ¹⁵ Ω/cm		7 x 10 ¹⁶ Ω/cm	7 x 10 ¹⁴ Ω/cm	2,5 x 10 ¹⁵ Ω/cm	2,5 x 10 ¹⁵ Ω/cm
Dielectric strength:	21 kV/mm		15 kV/mm	16 kV/mm	21 kV/mm	21 kV/mm
Thermal conductivity:	0,3 W/m·K		0,3 W/m·K	0,3 W/m·K	0,3 W/m·K	0,3 W/m·K
Overpaintable:	cannot be painted over					
Building material category (DIN 4102):	B 2					

*1 Corresponds approximately to the specified RAL colours. *2 For easier processing, the cartridges should be heated to room temperature (+20°/+68°F) before use at low temperatures.

*3 Normal climate +23°C (+73°F) and 50% relative humidity in accordance with DIN 50014. *4 material combination aluminium/aluminium, cleaned and degreased with Cleaner S, 1 mm layer thickness, 10 mm per minute tearing speed.

Elastic Adhesives and Sealants

Elastic Adhesives and Sealants

Information on surface preparation/pretreatment

Material		Basis MS-Polymere (POP)	Basis Polyurethan (PUR)	Basis Silicone
ABS		Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + K 200
Aluminium	Bare	Surface Cleaner + M 100	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + E 500
	Chromated	Surface Cleaner	Surface Cleaner	Surface Cleaner
	Anodised	Surface Cleaner + M 100	Surface Cleaner + M 100	Surface Cleaner + E 500
	Powder-coated	Surface Cleaner + K 200*	Surface Cleaner + K 200*	Surface Cleaner + K 200*
	Primed	Surface Cleaner + K 200*	Surface Cleaner + K 200*	Surface Cleaner + K 200*
	Painted	Surface Cleaner + K 200*	Surface Cleaner + K 200*	Surface Cleaner + K 200*
Enamel		Surface Cleaner + M 100	Surface Cleaner + M 100	Surface Cleaner + E 500
EPDM		Surface Cleaner + P 400*	Surface Cleaner + P 400*	Surface Cleaner + P 400*
GFRP (polyester, epoxy)	Smooth/rough side	Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + E 500
	Web goods	Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + E 500
	Hand laminate	Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + E 500
Glass	Untreated, clear	Surface Cleaner	Surface Cleaner + M 100**	Surface Cleaner + E 500
	Ceramic-coated	Surface Cleaner + M 100	Surface Cleaner + M 100	Surface Cleaner + E 500
Wood	Phenol-coated	no adhesion	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + E 500
	Melamine-coated	Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + E 500
	Untreated	Clean with humid cloth + Primer S 300	Blow off with compressed air + Primer S 300	Clean with humid cloth + Primer S 300
Ceramik		Surface Cleaner + M 100	Surface Cleaner + M 100	Surface Cleaner + E 500
Copper		Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + E 500
Brass		Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + E 500
PA (Polyamid)		Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + E 500
PC *2		Surface Cleaner + K 200*	Surface Cleaner + K 200*	Surface Cleaner + K 200*
PIR hard foam (polyisocyanurate)		Surface Cleaner	Surface Cleaner	Surface Cleaner
PMMA (acrylic glass)		Surface Cleaner + K 200*	Surface Cleaner + K 200*	Surface Cleaner + K 200*
Polywood		Roughen up finely + Surface Cleaner	Roughen up finely + Surface Cleaner	Roughen up finely + Surface Cleaner
PP/PE		Surface Cleaner + P 400*	Surface Cleaner + P 400	Surface Cleaner + P 400*
PS	Hard foam	Surface Cleaner + P 400*	Surface Cleaner + P 400*	Surface Cleaner + P 400*
	Panels, impact-resistant	Surface Cleaner	Surface Cleaner	Surface Cleaner
PUR hard foam (polyurethane)		Surface Cleaner	Surface Cleaner	Surface Cleaner
PUR elastomer		Surface Cleaner	Surface Cleaner	Surface Cleaner
PVC	Panels	Surface Cleaner + K 200	Surface Cleaner + K 200	Surface Cleaner + E 500
	Hard foam	Surface Cleaner	Surface Cleaner + K 200	Surface Cleaner + E 500
Steel	Bare	Surface Cleaner	Surface Cleaner	Surface Cleaner
	Chromated	Surface Cleaner	Surface Cleaner	Surface Cleaner
	Primed	Surface Cleaner + K 200	Surface Cleaner + M 100	Surface Cleaner + E 500
	Painted	Surface Cleaner + K 200	Surface Cleaner + M 100	Surface Cleaner + E 500
	Powder-coated	Surface Cleaner + K 200	Surface Cleaner + M 100	Surface Cleaner + E 500
	VA (stainless steel)	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + E 500
	Galvanised	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + M 100	Surface Cleaner + roughening up + E 500

* Preliminary tests are required

** Protect against UV back radiation

Primer M 100: For pretreating non-absorbent surfaces, e.g. metals, plastics, painted surfaces, enamels, ceramic and coated glass.
 Primer K 200: For pretreating non-absorbent and painted plastic surfaces and elastomers, e.g. EPDM.
 Primer S 300: For pretreating porous and absorbent surfaces.
 Primer P 400: For pretreating polyolefins, e.g. PE, PP and difficult-to-bond elastomers.
 Primer E 500: For pre-treatment of silicones.



Chemical resistance of WEICON Adhesives and Sealants after curing

	Flex 310 M® Classic	Flex 310 M® Crystal	Flex 310 M® HT 200	Flex 310 M® Super-Tack	Flex 310 M® Stainless-Steel	Flex 310 M® 2 K	Flex 310 M® Liquid	Flex+bond®	Speed-Flex®	Speed-Flex® Crystal	Aqua-Flex®	Solar-Flex®	Flex 310 PU	Flex 310 RLT	Fast-Bond	Silicon A	Silicon N	Silicon F	HT 300	Black-Seal
2-propanol	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	+	0	0	+	+
Acetic acid >5%	+	-	+	+	-	+	-	+	+	-	+	+	-	-	-	+	0	+	+	+
Acetone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Alcohol	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+	+	+
Ammonia 10 %	+	0	+	+	0	+	0	+	+	0	+	+	0	0	0	+	+	+	+	+
Antifreeze	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Caustic potash solution 20%	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+	-	-	-	-	-
Citric acid 10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+
Concentrated formic acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	0	+	+
Concentrated phosphoric acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Concentrated silicon oil	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cooling lubricant, water-dilutable	+	0	+	+	0	+	0	+	+	0	+	+	+	+	+	+	+	+	+	+
Diesel/heating oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	0	+
Edible oil/vegetable oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+	+	+
Ethanol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+
Freon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0
Gear oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	0	+
Glycerine (glycol)	+	0	+	+	0	+	0	+	+	0	+	+	+	+	+	+	+	+	+	+
Glycol ether	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+
Hydraulic oil	0	-	0	0	-	-	-	0	0	-	0	0	0	0	0	+	-	0	+	+
Hydrochloric acid 5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Hydrogen peroxide 3%	+	-	+	+	-	-	-	+	+	-	+	+	-	-	-	+	+	+	+	+
Ketones	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
Lyes, diluted	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Methanol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	0	+	+
Methyl ethyl ketone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Motor oil, mineral and synthetic, +140°C (+284°F)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	0	+
Motor oil, mineral and synthetic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	0	+	+
Naphtha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Nitric acid 5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Paint thinner	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	+	+
Paraffin oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+
Petrol (92 to 100 octane)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Phosphoric acid 5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Salt water/seawater	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium hydroxide solution 20%	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	+	0	0	+	+
Sulphuric acid 5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+
Toluene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	+	+	+
Water	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Water, +90°C (+194°F)	+	-	+	+	-	+	-	+	+	-	+	+	-	-	-	+	+	+	+	+
Xyleme	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	0	0	+	+

+ = resistant 0 = limited resistance - = not resistant

Elastic Adhesives and Sealants

Elastic Adhesives and Sealants

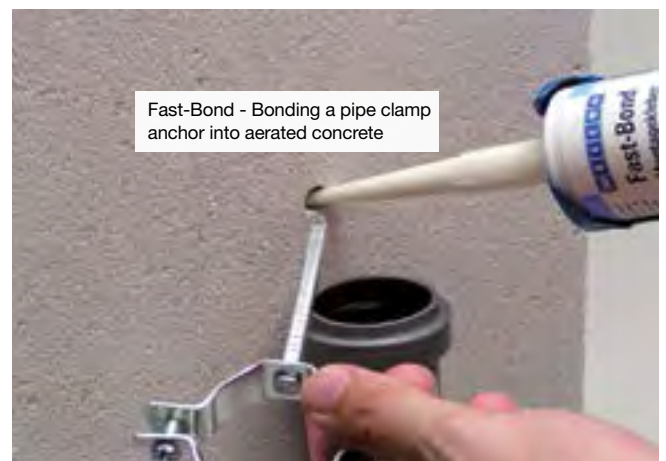
Formula for calculating the consumption quantity

i Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm} \times 5.71 = \text{pli}$
 $\text{N/mm}^2 \times 145 = \text{psi}$

$\text{MPa} \times 145 = \text{psi}$
 $\text{MPa} \times 0.145 = \text{KSI}$
 $\text{mPa}\cdot\text{s} = \text{cP}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{kg} \times 2.2046 = \text{lb}$

Joint depth \ Joint width	5 mm		6 mm		8 mm		10 mm		12 mm	
	ml/m	m/Kart.	ml/m	m/Kart.	ml/m	m/Kart.	ml/m	m/Kart.	ml/m	m/Kart.
5 mm	25	12,4	30	10,3						
6 mm	30	10,3	36	8,6						
8 mm	40	7,75	48	6,5	64	4,8				
10 mm	50	6,2	60	5,2	80	3,9	100	3,1		
12 mm	60	5,2	72	4,3	96	3,2	119	2,6		
15 mm	75	4,1	90	3,4	120	2,6	148	2,1	182	1,7
18 mm			108	2,9	144	2,2	182	1,7	221	1,4
20 mm					160	1,9	194	1,6	240	1,3
25 mm							258	1,2	300	1,0



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



WEICON GMK

GMK products are various contact adhesives for bonding rubber and metal.

GMK 2410

Permanently elastic and resistant to humidity

GMK 2410 is an adhesive based on polychloroprene (CR) for the high-strength, full-surface and flexible bonding of

rubber to rubber and rubber to metal.

WEICON GMK 2410 also bonds cellular rubber (e. g. neoprene), leather, felt, insulating material, textiles, wood, and many plastics.

GMK 2410 is not suitable for materials such as expanded polystyrene, polyethylene, polypropylene, flexible PVC foam, and artificial PVC leather. The product can be used for many industrial applications.

strong
Contact Adhesive
Rubber - Metal
elastic



185 g ✓
16100185
tube

300 g ✓
16100300
can

350 g ✓
16100350
brush top can

700 g ✓
16100700
can

5 kg ✓
16100905
bucket

25 kg ✓
16100925
bucket



GMK 2510

Strong, permanently elastic, temperature-resistant

GMK 2510 is a 2-component adhesive based on polychloroprene for full-surface and permanently elastic bonding of parts which are continuously exposed to dynamic loads.

The advantage compared to 1-component contact adhesives is the considerably better adhesion and the improved temperature resistance.

GMK 2510 bonds rubber, metal, textiles, leather, sponge rubber (neoprene), CSM (Hypalon), insulating materials, PU materials with an adhesive coating, wood and many plastics. After curing the bonding is moisture-proof.

WEICON GMK 2510 is not suitable for materials such as polystyrene foam, polyethylene, polypropylene parts, PVC soft foam and PVC imitation leather.



324 g ✓
16200324

Working package
(consisting of 300
g adhesive and
24 g activator)

690 g ✓
16200690

Working package
(consisting of 650
g adhesive and
40 g activator)

Rubber Metal Adhesive

GMK 2410

GMK 2510

Surface pre-treatment

The parts to be bonded must be clean, dry and free of dust or grease (WEICON Surface Cleaner, see page 206). Roughening the surfaces increases the bonding power efficiently.

Application

Stir the product well before use (for GMK 2510 only the adhesive) and then evenly apply a thin layer over the entire surface to be bonded with a paint brush or spatula (smooth or fine-toothed). Two or three thin layers may be required depending on the type of material and application. Depending on the layer thickness, ambient temperature and air humidity, allow the coated surfaces to evaporate for 5 - 15 minutes.

With absorbent surfaces (e.g. felt), an additional adhesive layer should be applied after evaporating. As soon as the surfaces are dry but still feel a bit sticky (finger test), the parts must be joined under brief, strong pressure (e.g. with a roller or hammer). If the evaporation time is exceeded (over-drying), the adhesive must be applied again. Non-cured, exceeding adhesive can be removed with WEICON Surface Cleaner (page 206).



Mixing process for GMK 2510

Mix the adhesive and activator together thoroughly and bubble-free for four minutes with the application spatula or mechanical mixers at low speed (max. 500 rpm) (mixing ratio approx. 100:7) to obtain a homogeneous mixture. Only prepare the quantity which can be applied within the evaporation time.

Medium tensile shear strength

	GMK 2410	GMK 2510
Galvanised steel / EPDM:	0,16 N/mm ² (16,0 N/cm ² *) 23 psi	0,60 N/mm ² (60,0 N/cm ² *) 87 psi
Galvanised steel / galvanised steel:	1,60 N/mm ² (160,0 N/cm ² *) 232 psi	3,00 N/mm ² (300,0 N/cm ² *) 435 psi
Galvanised steel / SBR:	0,54 N/mm ² (54,0 N/cm ² *) 78 psi	0,50 N/mm ² (50,0 N/cm ² *) 72 psi
Galvanised steel / NBR:	0,57 N/mm ² (57,0 N/cm ² *) 83 psi	0,49 N/mm ² (49,0 N/cm ² *) 71 psi

* Tensile shear test in accordance with DIN 53281-83

Technical Data

	GMK 2410	GMK 2510
Basis:	Polychloroprene (CR)	
Density:	0,93 g/cm ³	0,85 g/cm ³
Viscosity:	approx. 2.400 mPa·s	1.500 mPa·s
Mixing ratio:	---	100:7
Colour:	yellowish-brown	black
Consumption:	250 – 350 g/m ²	150 g/m ²
Evaporation time:	5 – 10 minutes	5 – 15 minutes
Final strength:	approx. 24 hours	
Temperature range:	from -40°C to +80°C (-40 to 176°F)	from -40°C to +80°C (-40 to 176°F), short-term (1 hour) up to +130°C (+266°F)
Processing temperature:	+15°C to +35 °C (+59 to 95°F)	+15°C to +35°C (+59 to 95°F); the adhesive gels under +5°C (+41°F), however is ready to use again by carefully heating it to room temperature!
Storage stability:	12 months when unopened	
Storage:	at room temperature (+15°C to +25°C/+59 to 77°F) dry, in densely closed packaging	

Surface and Anti-Corrosion Coating

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Technical Sprays

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Technical Sprays

WEICON – Our name stands for high-quality products that have been used successfully in all areas of production, repair, maintenance, and servicing for many years.

Products that will certainly solve a number of tasks and problems in your company as well.

Constant further development and adaptation to the latest requirements from practice and environmental concerns also guarantee a quality standard that remains consistently high.

- Surface and Anti-corrosion Coating
- Cleaner and Degreasers
- Protection and Care
- Solvents and Release Agents
- Lubricants





Zinc Spray

Long-term cathodic corrosion protection

WEICON Zinc Spray is approved by the German TÜV and provides a long-lasting cathodic corrosion protection to all metal surfaces. The spray forms a fast-drying, adherent protective layer of microfine zinc flakes.

Even after more than 550 hours in the salt spray test according to DIN 53167 and DIN 50021, metal parts coated with Zinc Spray did not show any corrosion. The zinc flakes form a resistant protective layer, even under extreme weather and environmental conditions.

Zinc Spray thus fulfils higher requirements than those defined by the DIN EN ISO 1461 standard. WEICON Zinc Spray can be used as a high-grade antirust primer, for the coating of welded joints and drilled holes, as a conductive intermediate layer for spot welding and wherever metal must be protected against corrosion.



400 ml ✓
11000400



Technical Data

Colour	RAL 9006, "Slightly weathered hot-dip galvanisation"
Application	indoors and outdoors
Binding agent	styrenated alkyd resin
Pigment	flaky zinc and aluminium pigments
Pigment purity	approx. 99,9 % Zn approx. 99,9 % Al
Percentage of metal in dry film	approx. 70 %
Content	400 ml
Specific Weight	1,1 - 1,3 g/cm ³
Recommended primer	not required
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 15 minutes
Hardened after	approx. 12 h
Painted over	approx. 24 h
Salt spraying test DIN 50021/DIN 53167	> 550 h
Temperature resistance after complete curing	-50 to +500°C (-58 to +932°F)
Storage stability	24 months

Technical Sprays

Surface and Anti-Corrosion Coating



Zinc Spray »bright grade«

Long-term cathodic corrosion protection

Zinc Spray „bright grade“ is approved by the German TÜV and provides a long-lasting cathodic corrosion protection to all metal surfaces. It has a bright colour shade matched to hot galvanization.

The spray forms a fast-drying, adherent protective layer of microfine zinc flakes. The zinc flakes form a resistant protective layer, even under extreme weather and environmental conditions.

Zinc Spray „bright grade“ can be used as a high-grade antirust primer, for the coating of welded joints and drilled holes, as a conductive intermediate layer for spot welding and everywhere where metal must be protected against corrosion.



400 ml
11001400

Technical Data

Colour	corresponds approximately to RAL 9006, "Fresh hot-dip galvanisation"
Application	indoors and outdoors
Binding agent	modified alkyd resin
Pigment	flaky zinc and aluminium pigments
Pigment purity	approx. 99,9 % Zn / approx. 99,5 % Al
Percentage of metal in dry film	approx. 70 %
Content	400 ml
Specific Weight	1,0 - 1,2 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 15 minutes
Hardened after	approx. 12 h
Painted over	approx. 24 h
Salt spraying test DIN 50021/DIN 53167	> 240 h
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months

Zinc-Alu Spray

Anti corrosion protection, tone approaching hot galvanizing

Zinc-Alu Spray lastingly protects all metal surfaces against rust and corrosion. WEICON Zinc-Alu Spray forms a fast drying and adherent protective layer and is resistant to many chemicals.

Zinc-Alu Spray is dust-dry after approx. 15 minutes and can be smoothed and painted over without pre-treatment after around 12 hours.

WEICON Zinc-Alu Spray can be used to repair damaged hot-galvanized surfaces in a matching colour shade and for coating welded joints and drilled holes.



400 ml ✓
11002400

Technical Data

Colour	RAL 9006, "Fresh hot-dip galvanisation"
Application	indoors and outdoors
Binding agent	acrylic resin
Pigment	Zinc- and aluminium pigments
Pigment purity	approx. 99,5 % Al / approx. 94,0 % Zn
Percentage of metal in dry film	approx. 51 %
Content	400 ml
Specific Weight	0,90 - 1,0 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 15 minutes
Hardened after	approx. 12 h
Painted over	approx. 12 h
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months

Chrome-Silver Spray

High-brilliance anticorrosive surface coating on aluminium basis

Chrome-Silver Spray is a high-brilliance surface coating. The special formulation and highest purity of the metal pigments create a high gloss finish.

WEICON Chrome-Silver Spray can be used for prototypes and samples, mirror applications (e.g. reflectors), trade show and exhibition construction, effective decorative work and for the optical refinement of the most diverse materials.



400 ml ✓
11103400

Technical Data

Colour	aluminium, glossy
Application	inside
Binding agent	natural resin
Pigment	flaky aluminium pigments
Pigment purity	approx. 99,5 % Al
Percentage of metal in dry film	approx. 15 %
Content	400 ml
Specific Weight	0,8 - 0,9 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 4 h
Painted over	can not be painted over
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +400°C (-58 to +752°F)
Storage stability	24 months

Technical Sprays

Surface and Anti-Corrosion Coating

Rust Protection 2000 PLUS

Special corrosion and weathering resistant surface coating

Rust Protection 2000 PLUS is a particularly corrosion and weather resistant surface coating on the basis of ferric oxide (hematite). The usage of highly-pure ferric oxide pigments in a flaky arrangement achieves permanent, weather-resistant and water-repellent surface protection.

Metal parts coated with Rust Protection 2000 PLUS did not show any corrosion after more than 2000* hours in a salt spray test.

It is used wherever metal structures or systems require prolonged protection against extreme environmental and weather conditions in a visually appealing manner.

WEICON Rust Protection 2000 PLUS can be used on halls and steel structures, iron railing, lattice towers, fences, handrails, balcony grates, rolling gates, outdoor lights, and on points particularly susceptible to corrosion.

*applied in two cross-coated layers onto an undamaged zinc undercoat

Technical Data

Colour	charcoal-grey / silver-grey
Application	indoors and outdoors
Binding agent	acrylic resin
Pigment	lamellar hematite
Pigment purity	> 90% ferric oxide
Percentage of metal in dry film	approx. 58 %
Content	400 ml
Specific Weight	1,3 - 1,4 g/cm ³
Recommended primer	not required
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 30 minutes
Hardened after	approx. 24 h
Painted over	approx. 24 h
Salt spraying test DIN 50021/DIN 53167	> 2000* h
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months



400 ml ✓
11013400
silver-grey

400 ml ✓
11012400
charcoal-grey

> 2000 hours
salt-spray-test
High Quality





Aluminium Spray A-100

Excellent corrosion protection, abrasion resistant

WEICON Aluminium Spray A-100 is abrasion-proof, resistant to many diluted acids and lyes, as well as to atmospheric influences. It contains aluminium pigments with a purity grade of >99.5%.

WEICON Aluminium Spray A-100 offers high-grade corrosion protection for all metal surfaces.

WEICON Aluminium Spray A-100 can be used in cooling and ventilation technology, combustion systems, pipelines and machine housings, fibre glass car body components, in model building, arts and crafts, toy manufacturing and in many additional applications.



400 ml ✓
11050400

Technical Data

Colour	aluminium metallic, matt
Application	indoors and outdoors
Binding agent	acrylic resin
Pigment	Aluminium pigments
Pigment purity	approx. 99,5 % Al
Percentage of metal in dry film	approx. 43 %
Content	400 ml
Specific Weight	0,9 - 1,0 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 4 - 6 h
Painted over	approx. 4 - 6 h
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +800°C (-58 to +1.472°F)
Storage stability	24 months

Aluminium Spray A-400

Highest brilliancy

Aluminium Spray A-400 has the highest brilliancy and is resistant to many diluted acids and lyes, as well as to wheater effects. It contains aluminium pigments with a purity grade of >99.5%.

WEICON Aluminium Spray A-400 offers high-grade corrosion protection for all metal surfaces.

Aluminium Spray A-400 can be used in cooling and ventilation technology, combustion systems, pipelines and machine housings, fibre glass car body components, in model building, arts and crafts, toy manufacturing and in many additional applications.



400 ml ✓
11051400

Technical Data

Colour	aluminium, sheeny
Application	indoors and outdoors
Binding agent	hydrocarbon resin
Pigment	flaky aluminium pigments
Pigment purity	approx. 99,5 % Al
Percentage of metal in dry film	approx. 23 %
Content	400 ml
Specific Weight	0,8 - 0,9 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 4
Painted over	cannot be painted over
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +800°C (-58 to +1.472°F)
Storage stability	24 months

Technical Sprays

Surface and Anti-Corrosion Coating

Stainless Steel Spray

Corrosion-resistant and effective surface coating



400 ml ✓
11100400

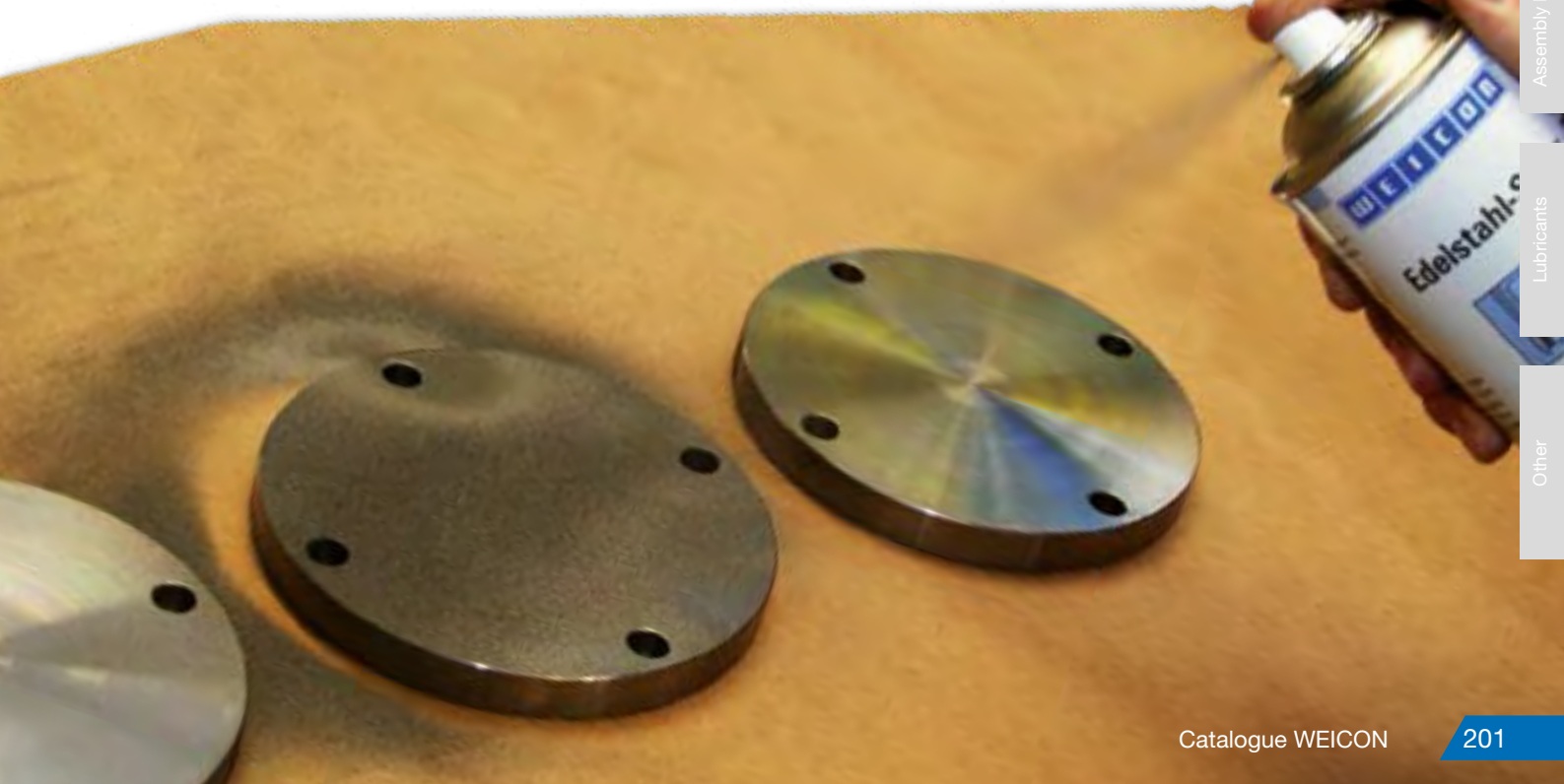
WEICON Stainless Steel Spray is a chemical, corrosion, and weather resistant surface coating on the basis of acrylic resin and stainless steel pigments. It is temperature resistant up to +300°C (+572°F) for short periods of time.

Stainless Steel Spray can be used wherever a resistant and effective protective layer is required. The alloy is comprised of e.g. chromium, nickel and manganese.

WEICON Stainless Steel Spray can be used to repair damaged stainless steel parts on truck bodies, silos and pipelines, and outdoor applications. It can also be used for decorative purposes and for the optical refinement of glass, wood, stone, ceramics and most plastics.

Technical Data

Colour	RAL 9007, stainless steel metallic, matt
Application	indoors and outdoors
Binding agent	acrylic resin
Pigment	stainless steel pigments
Pigment purity	stainless steel alloy approx. 98,5 %
Percentage of metal in dry film	approx. 45 %
Content	400 ml
Specific Weight	0,9 - 1,0 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 4 - 6 h
Painted over	approx. 4 - 6 h
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months



Stainless Steel Spray »bright grade«

Provides a treated stainless steel look e.g. V2A, V4A

WEICON Stainless Steel Spray „bright grade“ is a chemical, corrosion and weather resistant surface coating on the basis of acrylic resin and stainless steel pigments. It is temperature resistant up to +300°C for short periods and provides a treated stainless steel look.

Stainless Steel Spray „bright grade“ can be used wherever a resistant and effective protective layer is required. The alloy is comprised of e.g. chromium, nickel and manganese.

WEICON Stainless Steel Spray „bright grade“ can be used to repair damaged stainless steel parts on truck bodies, silos and pipelines, and in outdoor applications. It can also be used for decorative purposes and for the optical refinement of glass, wood, stone, ceramics and most plastics.



400 ml ✓
11104400

Technical Data

Colour	stainless steel metallic, bright (RAL 9006)
Application	indoors and outdoors
Binding agent	alkyd resin
Pigment	stainless steel and aluminium pigments
Pigment purity	VA-alloy approx. 98,5 % Al
Percentage of metal in dry film	approx. 35,0 % VA/Al
Content	400 ml
Specific Weight	0,95 - 1,0 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 10 h
Painted over	approx. 8 h
Salt spraying test DIN 50021/DIN 53167	> 140 h
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months

Copper Spray

High-grade and effective

WEICON Copper Spray is a high-quality, weather-resistant metal spray with high adhesion power and a high copper content for protective and decorative coatings having an effective nonferrous metal character for indoor and outdoor use.

It is even used for the optical refinement (copper-plating) of various material surfaces or design parts.

Copper Spray can be used on window sills, gutters and downspouts, outdoor lights and mailboxes, and for arts & crafts and decorative work.



400 ml ✓
11101400

Technical Data

Colour	copper-metallic, matt
Application	indoors and outdoors
Binding agent	acrylic resin
Pigment	copper pigments
Pigment purity	approx. 99,9 % Cu
Percentage of metal in dry film	approx. 50 %
Content	400 ml
Specific Weight	0,9 - 1,0 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 4 - 6 h
Painted over	approx. 4 - 6 h
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months



Technical Sprays

Surface and Anti-Corrosion Coating

Brass Spray

High-grade and effective



400 ml ✓
11102400

WEICON Brass Spray is a metallic coating with a high brass content and a colour shade typical of brass. For the protection and optical refinement of various materials.

Brass Spray can be used in restoration work, for decorative purposes, in arts and crafts, hobby and do-it-yourself applications. It is suited for the sustainable repair of yellow chrome-plated parts which have been damaged by drilling, welding or milling.

Technical Data

Colour	brass-metallic, matt
Application	indoors and outdoors
Binding agent	acrylic resin
Pigment	brass pigments
Pigment purity	approx. 99,9 % Ms
Percentage of metal in dry film	approx. 52 %
Content	400 ml
Specific Weight	0,9 - 1,0 g/cm ³
Recommended primer	Zinc-Spray
Processing temperature	from +5 to +35°C (+41 to +95°F), optimal +18 to +25°C (+64 to +77°F)
Dust dry after	approx. 10 minutes
Hardened after	approx. 4 - 6 h
Painted over	approx. 4 - 6 h
Salt spraying test DIN 50021/DIN 53167	---
Temperature resistance after complete curing	-50 to +300°C (-58 to +572°F)
Storage stability	24 months



Technical Data

Colour	milky
Odour	solvent
Special features	on a wax basis
Temperature resistance	-20 to +80°C (-4 to +176°F)
Storage stability	24 months



Corro-Protection

Corrosion protection of metal parts for indoor storages




400 ml ✓
11550400

WEICON Corro Protection is a transparent protective film approved by the German TÜV. It lastingly preserves tools and precision components with a dry and waxy layer.

WEICON Corro Protection can be used as safe corrosion protection for bare, unpainted metal parts, for the indoor storage of work-pieces, as corrosion protection during overseas transport and for the conservation of tools and precision components.

The protective layer can be removed easily (e.g. with WEICON Cleaner S).

Technical Data

	Rust Protection 2000 PLUS charcoal-grey	Rust Protection 2000 PLUS silver-grey	Zinc-Spray 	Zinc-Spray bright grade
Colour* ¹ :	charcoal-grey / DB 703	silver-grey / DB 701	RAL 9006, "Slightly weathered hot-dip galvanisation"	corresponds approximately to RAL 9006, "Fresh hot-dip galvanisation"
Application:	indoors and outdoors			
Binding agent:	acrylic resin		styrenated alkyd resin	modified alkyd resin
Pigment:	lamellar hematite		flaky zinc and aluminium pigments	flaky zinc and aluminium pigments
Pigment purity:	> 90% ferric oxide		approx. 99,9 Zn / approx. 99,9% Al	approx. 99,9 Zn / approx. 99,5% Al
Percentage of metal in dry film:	approx. 58%		approx. 70%	approx. 70%
Content:	400 ml			
Specific Weight g/cm ³ :	1,3 - 1,4		1,1 - 1,3	1,0 - 1,2
Recommended primer:	not necessary		not necessary	Zinc-Spray
Processing temperature* ² :	from +5°C (+41°F) to +35°C (+95°F), optimum processing temperature from +18°C (+64°F) to +25°C (+77°F)			
Consumption at 1.5 cross coats* ³ :	approx. 160 ml/m ²		approx. 150 ml/m ²	
Layer thickness at 1.5 cross coats* ³ :	approx. 60-80 µm		approx. 30-50 µm	approx. 20-40 µm
Drying time* ³ :	Dust dry	approx. 30 minutes	approx. 15 minutes	
	Hardened	approx. 24 hours	approx. 12 hours	
	Painted over	approx. 24 hours		
Abrasion-resistant:	abrasion-resistant			
Cross cutting DIN 53151 / ISO 2409:	cross cut characteristic value GT 0 to GT 1		cross cut characteristic value GT 0	cross cut characteristic value GT 0 to GT 1
Salt spraying test DIN 50021 / DIN 53167:	>2.000 hours* ⁴		>550 hours	>240 hours
Mandrel bend test DIN EN ISO 1519:	no hair cracking			
Top coating:	not required			
Temperature resistance after complete curing:	approx. from -50°C (-58°F) up to +300°C (+572°F)		approx. from -50°C (-58°F) up to +500°C (+932°F)	approx. from -50°C (-58°F) up to +300°C (+572°F)
Storage stability* ⁵ :	24 months			

*¹ Corresponds approximately to the specified RAL colours.

*² When processing at temperatures below +10°C (+50°F), heat spray cans to room temperature +20°C (+68°F).

*³ Temperature of spray can and the surface of +20°C (+68°F) and 50% relative humidity.

Technical Sprays

Technical Data

Zinc Alu Spray	Aluminium-Spray A-100	Aluminium-Spray A-400	Stainless Steel Spray	Stainless Steel Spray »bright grade«	Chrome Silver Spray	Copper Spray	Brass Spray
RAL 9006, "Fresh hot-dip galvanisation"	aluminium-metallic, matt	aluminium, sheeny	RAL 9007, stainless steel metallic, matt	RAL 9006 stainless steel metallic, bright	aluminium, glossy	copper-metallic, matt	brass-metallic, matt
indoors and outdoors	indoors and outdoors	indoors and outdoors	indoors and outdoors	indoors and outdoors	indoors	indoors and outdoors	indoors and outdoors
acrylic resin	acrylic resin	hydrocarbon resin	acrylic resin	alkyd resin	natural resin	acrylic resin	acrylic resin
zinc- and aluminium pigments	aluminium pigments	flaky aluminium pigments	stainless steel pigments	stainless steel and aluminium pigments	flaky aluminium pigments	copper pigments	brass pigments
approx. 99,5% Al / approx. 94,0% Zn	approx. 99,5% Al	approx. 99,5% Al	stainless steel alloy approx. 98,5%	VA-alloy approx. 98,5% Al	approx. 99,5% Al	approx. 99,9% Cu	approx. 99,9% Ms
approx. 51%	approx. 43%	approx. 23%	approx. 45%	approx. 35,0% VA/Al	approx. 15%	approx. 50%	approx. 52%
400 ml							
0,90 - 1,0	0,9 - 1,0	0,8 - 0,9	0,9 - 1,0	0,9 - 1,0	0,8 - 0,9	0,9 - 1,0	0,9 - 1,0
Zinc Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray
from +5°C (+41°F) to +35°C (+95°F) – optimum processing temperature from +18°C (+64°F) to +25°C (+77°F)							
approx. 150 ml/m ²	approx. 120 ml/m ²	approx. 120 ml/m ²	approx. 120 ml/m ²	approx. 120 ml/m ²	approx. 150 ml/m ²	approx. 120 ml/m ²	approx. 120 ml/m ²
approx. 20-40 µm	approx. 25-35 µm	approx. 10-15 µm	approx. 20-30 µm	approx. 15-25 µm	approx. 10-20 µm	approx. 20-30 µm	approx. 20-30 µm
approx. 15 minutes	approx. 10 minutes						
approx. 12 hours	approx. 4-6 hours			approx. 10 hours	approx. 4-6 hours		
approx. 12 hours	approx. 4-6 hours	cannot be painted over	approx. 4-6 hours	approx. 8 hours	cannot be painted over	approx. 4-6 hours	approx. 4-6 hours
abrasion-resistant	abrasion-resistant	not abrasion-resistant	abrasion-resistant	abrasion-resistant	not abrasion-resistant	abrasion-resistant	abrasion-resistant
cross cut characteristic value GT 0 to GT 1							
---				>140 h	---		
no hair cracking							
not required	not required	cannot be painted over	not required	not required	cannot be painted over	not required	not required
approx. from -50°C (-58°F) up to +300°C (+572°F)	approx. from -50°C (-58°F) up to +800°C ^{*5} (+1.472°F)	approx. from -50°C (-58°F) up to +800°C (+1.472°F)	approx. from -50°C (-58°F) up to +300°C (+572°F)	approx. from -50°C (-58°F) up to +300°C (+572°F)	approx. from -50°C (-58°F) up to +400°C (+752°F)	approx. from -50°C (-58°F) up to +300°C (+572°F)	approx. from -50°C (-58°F) up to +300°C (+572°F)
24 months							

*4 applied in two cross-coated layers onto an undamaged zinc undercoat

*5 At a constant room temperature of +20°C (+68°F) and dry storage. The same applies for closed original barrels that are not subjected to direct or indirect sunlight.

*6 Not abrasion-resistant between +350°C (+662°F) and +550°C (+1.022°F).



Surface Cleaner

Pretreatment of bonding surfaces

WEICON Surface Cleaner is used for the cleaning and degreasing of surfaces to be joined or sealed with WEICON adhesives and sealants.

WEICON Surface Cleaner can be applied on materials like metal, glass, ceramics and most plastics.

Surface Cleaner can be used, for example, to clean and degrease machine components in the course of maintenance work.



150 ml ✓
11207150

400 ml ✓
11207400

Technical Data

Colour	colourless
Odour	solvent
Special features	evaporates without residues
Temperature resistance	---
Storage stability	24 months

Cleaner Spray S

Degreases and cleans all metals, glass, ceramics and most plastics

WEICON Cleaner Spray S cleans, degreases and evaporates without leaving residues. Its special valve also makes it possible to work above your head.

Cleaner Spray S can be used on all metals, glass, and ceramics, and on most plastics, and thermoplastics such as PVC, PMMA (acrylic glass), polystyrene etc.

WEICON Cleaner Spray S can be used for cleaning and degreasing before priming and painting, for cleaning machine parts or before other WEICON products are applied on surfaces where a greasy underground would impair their effect.



500 ml ✓
11202500

Technical Data

Colour	colourless
Odour	orange
Special features	evaporates without residues
Temperature resistance	---
Storage stability	24 months



Technical Sprays

Cleaner and Degreaser

NSF K1: Solvent cleaners – Nonprocessing area products;
NSF K3: Solvent cleaners – Adhesives/glue removers



New **Fast Cleaner**

Cleaner and degreasing agent for sensitive areas

Technical Data

Colour	colourless
Odour	solvent
Special features	NSF K1/K3 approval
Temperature resistance	-10°C to +50°C (+14°F to +122°F)
Storage stability	24 months

Due to its special formula and the resulting NSF registration, the Fast Cleaner can contribute towards improvements in occupational safety and health protection.



500 ml ✓
11212500

The Fast Cleaner has an NSF registration for the foodstuffs sector and can therefore be used as a cleaner and degreasing agent for the removal of contamination generated within the scope of maintenance work and for the removal of non-cured adhesive residues in the foodstuffs industry, in the foods and beverages industry and in the pharmaceuticals and chemical industries.

Fast Cleaner is used to clean and degrease surfaces which are bonded or sealed using WEICON adhesives and sealants, or which should be coated using WEICON metal sprays.

Fast Cleaner is pH-neutral and material-compatible, and can be used on many different materials such as metals, glass, ceramics and most rubbers and plastics.

Technical Data

Colour	colourless
Odour	citrus
Special features	for sensitive plastic surfaces
Temperature resistance	---
Storage stability	24 months



500 ml ✓
11204500

Plastic Cleaner

Degreases and cleans sensitive surfaces

WEICON Plastic Cleaner cleans, degreases and evaporates without leaving residues.

WEICON Plastic Cleaner can be used to clean and degrease sensitive surfaces such as plastics, rubber materials or powder-coated metal parts.

Plastic Cleaner can be used, for example, on window frames, roller blinds, plastic profiles, seals or lacquered flanges in many industrial applications.

Brake Cleaner

Multi-purpose cleaner, especially for the automotive sector

WEICON Brake Cleaner is a universal cleaner for the automotive industry, which cleans, degreases and evaporates without leaving residues.

Brake Cleaner quickly and effortlessly degreases and cleans metals, glass and many plastics. It removes oily and greasy impurities and residues.

WEICON Brake Cleaner can be used on brakes (drum and disc brakes, brake pads, brake blocks, cylinders, springs and bushings), clutches (clutch linings and components) and on engine parts (carburetors, fuel and oil pumps, gears etc.).



500 ml ✓
11203500

Technical Data

Colour	colourless
Odour	citrus
Special features	evaporates without residues
Temperature resistance	---
Storage stability	24 months

Burner Cleaner

Especially formulated to remove grease, oil, soot and other dirt accumulations from burner parts

WEICON Burner Cleaner is a special cleaner for the removal of grease, oil, rust and other impurities from burner parts.

WEICON Burner Cleaner evaporates without leaving residues.

WEICON Burner Cleaner can be used on blast connections, baffles plates, fan wheels and in housing interiors, ignition electrodes, etc.



500 ml ✓
11205500

Technical Data

Colour	colourless
Odour	citrus
Special features	evaporates without residues
Temperature resistance	---
Storage stability	24 months



Technical Sprays

Cleaner and Degreaser

Electro Contact Cleaner

Cleans and degreases electronic or mechanical components

WEICON Electro Contact Cleaner is a special cleaner for the fast and effective cleaning and degreasing of all kinds of soiled or corroded contacts.

Electro Contact Cleaner was specially developed for the cleaning of electrical and mechanical components. The special formula with high-purity solvents removes oxide/sulphide layers, combustion residues and resinous or sooty soiling.

WEICON Electro Contact Cleaner reduces voltage loss and increases electric conductivity. Contamination that can cause tracking current is removed. It can be used on electro-technical or mechanical components such as electrical machines, measuring instruments, tools, balances, switches and sensors or electrical connections, contacts, relays and switchboards.



400 ml ✓
11210400



Technical Data

Colour	colourless
Odour	solvent
Special features	high-purity solvents
Temperature resistance	---
Storage stability	24 months

Mould Cleaner

Cleaner on the basis of highly active organic solvents

WEICON Mould Cleaner is a special cleaner based on highly active organic solvents. It effectively removes waxes, silicones, oils, non-cured PUR residues and other impurities from plastic, steel or aluminium moulds.



500 ml ✓
11203550

Technical Data

Colour	colourless
Odour	citrus
Special features	removes waxes, oils, silicones and other impurities from moulds and tools
Temperature resistance	---
Storage stability	24 months



Citrus Cleaner

Cleaner and degreaser on the basis of citrus essences

WEICON Citrus Cleaner is a universal cleaner based on citrus peel extracts. It cleans machines and systems, precision engineering components and precision mechanisms in industry and small trades. Citrus Cleaner easily removes adhesive residues, contamination due to oils, greases, resin and tar, lubricants as well as rubber residues and -abrasion. The product can even be used for contamination caused by pencils, ballpoint pens and felt pens.

WEICON Citrus Cleaner cleans the most diverse surfaces such as metal, plastic, glass, ceramic or painted and lacquered surfaces*. Citrus Cleaner can be used universally and, for example, in industry and small trade, window construction, public facilities and means of transport, construction companies and in the household.



400 ml ✓
11217400

Technical Data

Colour	colourless
Odour	citrus
Special features	for sensitive surfaces
Temperature resistance	---
Storage stability	24 months



*For safety reasons, the material compatibility should first be checked on a non-visible area.

Multi-Foam

Powerful universal cleaner

WEICON Multi-Foam is a powerful universal cleaner for residue-free cleaning. It is safe for the environment, biodegradable, free of phosphates and formaldehyde and contains no corrosive or caustic substances.

Multi-Foam can be used to clean the most diverse surfaces such as metal, plastic, glass, ceramic or lacquered and coated surfaces.

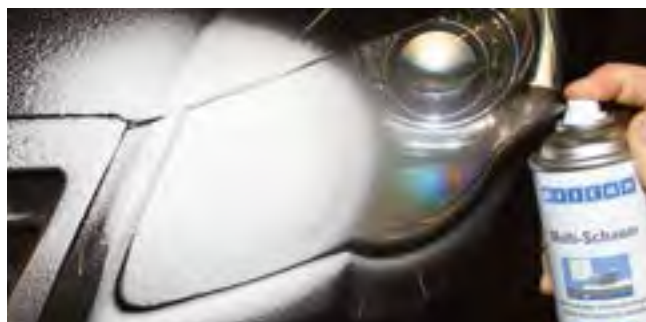
WEICON Multi-Foam can be used universally in industry, small trade and in the private sector.



400 ml ✓
11200400

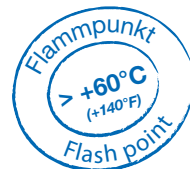
Technical Data

Colour	white
Odour	citrus
Special features	biodegradable
Temperature resistance	---
Storage stability	24 months



Technical Sprays

Cleaner and Degreaser



Parts and Assembly Cleaner

Specially developed cleaner with a high flash point (> +60°C of the agent)

WEICON Parts and Assembly Cleaner is a specially developed cleaner with a high flashpoint (>+60°C of the active ingredient) and a long working time for the removal of coarse, oily, resinified and greasy contamination. Due to its high flashpoint, Parts and Assembly Cleaner conforms to the former VbF classification AIII (VbF = Regulation concerning flammable liquids) and complies with the recommendations of the professional associations for safety at work.

WEICON Parts and Assembly Cleaner is free of acetone, butanol, ethyl acetate, etc.

Parts and Assembly Cleaner quickly and thoroughly cleans all kinds of assembly parts, aggregates, construction parts and tools. It removes oils, greases, dirt, etc., from all metal parts and cleans brakes, clutches, engine parts, etc. in the automotive sector. The product can be used in many industrial applications.



500 ml ✓
11201500

Technical Data

Colour	colourless
Odour	mineral oil
Special features	high flash point (>+60°C/+140°F)
Temperature resistance	---
Storage stability	24 months



Visor Cleaner

Cleaner on the basis of highly active organic solvents

WEICON Visor Cleaner is a special cleaner for the cleaning and care of sensitive plastic and glass surfaces. It is antistatic and antireflective, reduces dazzling, and improves the view.

WEICON Visor Cleaner gently removes contamination caused by insects, dirt, dust, grease and nicotine without leaving streaks.

Visor Cleaner can be used on all kinds of visors, on welding face shields, safety goggles, vision protection, safety glass, plastic housings on CNC machines, printers, scanners, etc., and on all other plastic and glass surfaces.



200 ml ✓
11211200

Technical Data

Colour	white
Odour	almost odourless
Special features	cleaning without residues and neutral to surfaces
Temperature resistance	---
Storage stability	24 months



Compressed-Air Spray

Universal use, fast and reliable

WEICON Compressed Air Spray can be used universally, wherever dust cannot be easily removed by conventional methods and on parts which are difficult to reach.

It allows dust to be removed from inaccessible corners and sensitive surfaces in a dry and contact-free manner.

Compressed Air Spray can be used on hi-fi and video devices (e.g. modules, circuit boards, magnetic heads, disk drives, etc.), in optics (e.g. cameras and lenses), automotive fuse boxes, windshield washer systems, clock mechanisms (quartz clocks), medical technology, model building, measurement technology, and on electronic components and circuit boards.



400 ml ✓
11620400

Technical Data

Colour	---
Odour	almost odourless
Special features	clean in a contact-free manner
Temperature resistance	---
Storage stability	24 months



Technical Sprays

Cleaner and Degreaser

Sealant and Adhesive Remover

Removes residues of hardened sealants and adhesives

WEICON Sealant and Adhesive Remover quickly and easily removes residues of hardened sealants and adhesives as well as lacquers and paints, even from vertical surfaces.

WEICON Sealant and Adhesive Remover can be used on metal, wood, glass, ceramics, polyethylene and polypropylene. It should not be used on sensitive plastics such as PVC, synthetics, linoleum, etc.

Sealant and Adhesive Remover loosens all kinds of sealant residues on cylinder heads, oil sumps, water pumps, exhaust manifolds, valve covers and gearbox flanges. It reliably removes oil carbon residues, paints and lacquers, and eliminates oils, resins, greases and tar. It can also be used as a paint stripper for wood restoration and removes all kinds of adhesives, even cured cyanoacrylate and anaerobic adhesives.



400 ml ✓
11202400

Technical Data

Colour	pink
Odour	solvent
Special features	powerful
Temperature resistance	---
Storage stability	12 months



200 ml ✓
11208200

Screen Cleaner

Cleans carefully without leaving residues

WEICON Screen Cleaner is a special cleaner for the cleaning and care of sensitive plastic and glass surfaces. It is antistatic and antireflective. Its antistatic effect provides a dirt and dust-rejecting surface.

WEICON Screen Cleaner gently removes contamination caused by insects, dirt, dust, grease and nicotine without leaving streaks.

WEICON Screen Cleaner can be used on all flat and plasma screens (computers, mobiles, laptop computers, televisions, scanners, copy machines, etc.) and plastic housings (on computers, scanners, copy machines or televisions).

Technical Data

Colour	white
Odour	almost odourless
Special features	also suitable for sensitive plastic and glass surfaces
Temperature resistance	---
Storage stability	24 months






Stainless Steel Care Spray

Antistatic cleaning

Stainless Steel Care Spray was specially formulated for the cleaning, protection and care of matt and polished stainless steel surfaces both indoors and outdoors and has an antistatic effect.

WEICON Stainless Steel Care Spray removes and prevents fingerprints, removes lubricating films e.g. from fume hoods, cleans even large surfaces without leaving streaks, and provides a long-lasting protective film which repels water and prevents new dirt from clinging. The product can be used in many applications.



400 ml 
11590400

Technical Data

Colour	colourless
Odour	almost odourless
Special features	antistatic effect, indoors and outdoors
Temperature resistance	-20 to +130°C (-4 to +266°F)
Storage stability	24 months

Hand Protective Foam


Waterproof and provides lasting protection

Hand Protective Foam is waterproof and provides lasting protection.

WEICON Hand Protective Foam forms a grease-free, invisible and waterproof protective film which prevents the most diverse types of contaminants from penetrating the skin and pores. This „invisible glove“ protects against contaminants and irritants from aggressive chemical substances. The usage of liposomes greatly improves the care effect.

WEICON Hand Protective Foam can be used in many sectors.



200 ml 
11850200



Technical Data

Colour	white
Odour	odourless
Special features	with liposomes,
Temperature resistance	---
Storage stability	24 months



Technical Sprays

Protection and Care

Metal-Fluid

Universal use, fast and reliable

WEICON Metal-Fluid is a care and cleaning product for indoor matt and polished surfaces and has an NSF approval.

WEICON Metal-Fluid protects, cleans and cares for both metal surfaces and ceramics, wood, glass and plastics. It does not dissolve etched and printed markings or plastic surfaces and rubber seals.



400 ml ✓
11580400

Technical Data

Colour	milky
Odour	almost odourless
Special features	antistatic effect
Temperature resistance	---
Storage stability	24 months



Non-food Compounds Registration Programme
Category Code: A7, C1





Cockpit Spray

Care product for the automotive interior


WEICON Cockpit-Spray is a water-rejecting care product for all plastic and rubber parts in motor vehicle interiors. The permanent invisible protective film prevents contamination and creates an easy-care, dust repelling silky shine.

Cockpit-Spray refreshes dull and weathered plastic. Rubber does not crack and remains supple and elastic.

WEICON Cockpit-Spray eliminates squeaky and creaky noises, and cares for dashboards, inside cladding, all plastic and rubber parts, leather, wood, and chromium, and car roofs covered with synthetic leather.

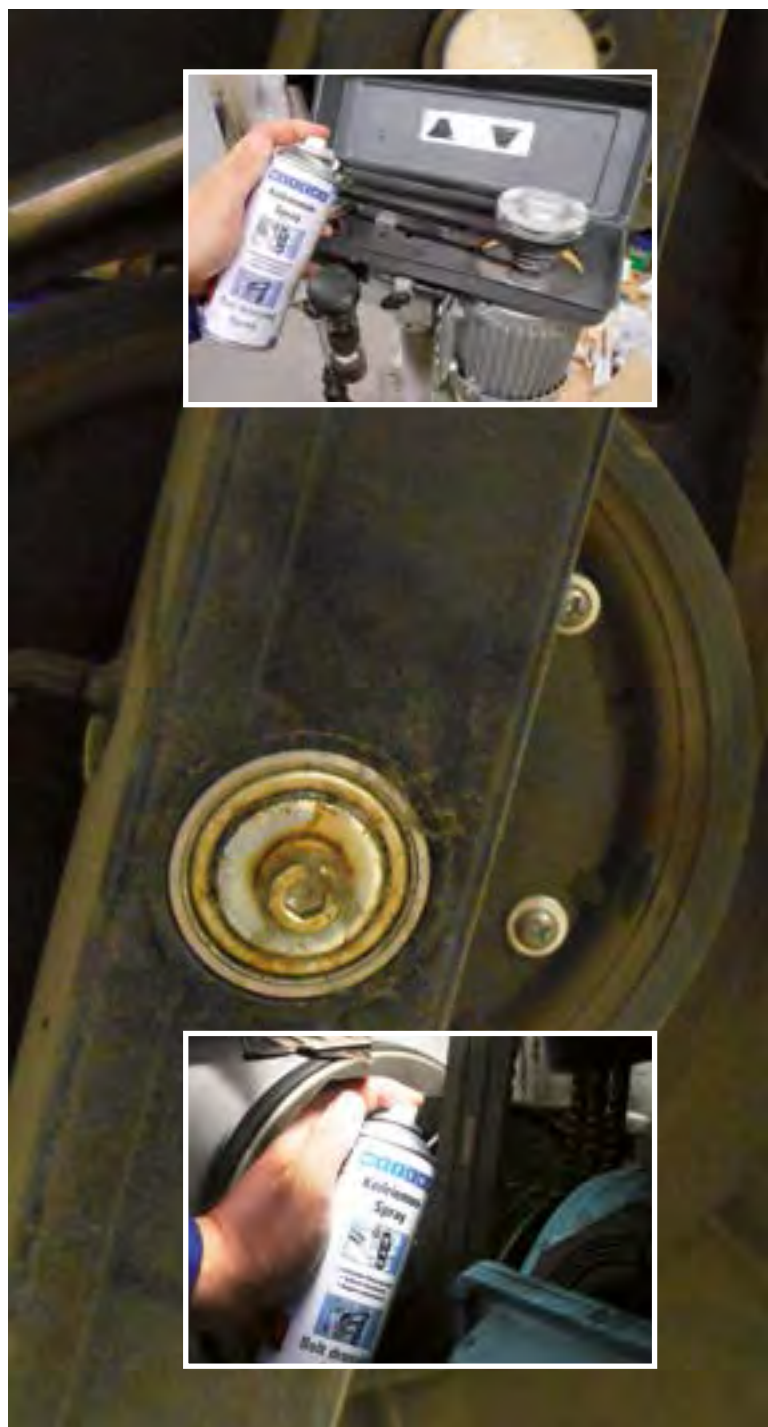
It prevents door, window and boot seals from freezing, and is used as a lubricant for seatbelts, seat guides, sunroofs, window guides, door locks and wherever greasy soiling can be caused.



400 ml 
11400400

Technical Data

Colour	colourless
Odour	citrus
Special features	discreet satin finish
Temperature resistance	---
Storage stability	24 months



Technical Sprays

Protection and Care

Belt Dressing Spray

Suitable for highly-stressed power-transmission belts



400 ml ✓
11511400

WEICON Belt Dressing Spray is a transparent belt coating based on synthetic elastomers for the most diverse types of heavily stressed drive belts.

It increases the service life, prolongs the durability of machines and systems, prevents belt slip, transmits the full drive capacity, eliminates and prevents squeaking, penetrates deep into pores, increases the effectiveness of the tensile strength, increases friction and promotes adhesion, prevents static charging, ensures suppleness and protects against ageing.

Belt Dressing Spray is suitable for many different types of belts made from all common materials such as fabric, leather, rubber or PVC. It can be used for V-belts, link belts, drive belts, flat belts, round belts, toothed belts, transmission belts, ribbed belts or conveyor belts.

WEICON Belt Dressing Spray is particularly suited for all types of drive belts in machines, aggregates, compressors, pumps, generators, conveyors, mills, pillar drills, and cooling units. The product can be used in many industrial sectors.

Technical Data

Colour	colourless
Odour	mineral oil
Temperature resistance	-40 to +80°C (-40 to +178°F)
Storage stability	24 months





Contact Spray


**Dispels moisture,
prevents leakage current**

WEICON Contact Spray is based on a special combination of active ingredients for the protection and care of electrical contacts and components.

It dispels moisture from electrical contacts, prevents leakage currents and voltage loss and keeps contacts, fuses, cable connections, etc. free of oxidation and sulphide layers.

WEICON Contact Spray can therefore be used, for example, on fuse boxes, speaker systems, gate drives, electrical outlets, cable and electrical connections, cable reels and extensions, electrical garden equipment and lighting systems.



400 ml 
11152400

Technical Data

Colour	transparent
Odour	solvent
Special features	dispels moisture, protects electrical contacts
Temperature resistance	-17 to +120°C (+1 to +248°F)
Storage stability	24 months



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Technical Sprays

Solvents and Release Agents

+ 350%

Technical Data

Colour	colourless
Odour	solvent
Special features	silicone-free
Temperature resistance	-20 to +130°C (-4 to +266°F)
Storage stability	24 months



400 ml ✓
11451400

Alu Grinding Protection

Effective with all abrasives,
silicone-free

WEICON Alu Grinding Protection works like a cooling lubricant and separating agent during the grinding process. It lowers the temperature at the contact point and forms a silicone-free anti-adhesive layer on the abrasive material. The use of WEICON Alu Grinding Protection avoids a clogging, and the pores of the grinding media remain open.

WEICON Alu Grinding Protection greatly increases the tool life of an abrasive disc and the grinding performance can be increased by up to 350%. It can be used for all abrasive materials on foundations such as fibre wheels, sheeting, endless grinding bands, abrasive sleeves, orbital sanders, and special machines.

Technical Data

Colour	colourless
Odour	solvent
Special features	SLV-tested, silicone-free
Temperature resistance	---
Storage stability	24 months



400 ml ✓
11700400

Welding Protection Spray

SLV-tested, silicone-free

WEICON Welding Protection Spray contains no silicone and is used to clean welding nozzles and to keep them clean. At the same time, it protects the work piece to be welded against the effect of weld splashes without impairing the welding seam.

Protection Spray prevents the adhesion of welding splashes on gas nozzles and work-piece surfaces, offers gap-free protection for the welding process, and makes follow-up cleaning of the work-pieces with a spatula, brush or chisel superfluous. Post-treatment of the work-piece such as: bronzing, galvanisation, anodising or painting is possible without special cleaning. Cleaning, for example, with WEICON Spray Cleaner S, may be necessary solely in the case of excessive spraying.

* Tested by the Schweiß-Fach-Lehranstalt (Welding Institute) in Hannover.



Rust Shock


The „chemical wrench“

WEICON Rust Shock is free of mineral oil, grease and silicone.

Rust Shock is a „chemical screwdriver“ and uses its chill effect and capillary properties to loosen threaded joints in seconds.

WEICON Rust Shock can be used in all industrial sectors requiring threaded joints to be loosened.



400 ml 
11151400

Technical Data

Colour	blue
Odour	solvent
Special features	removes rusted-tight screw connections of any type in seconds
Temperature resistance	---
Storage stability	12 months



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Rust Loosener Fluid New


Penetrating oil for sensitive areas

Rust Loosener Fluid is physiologically harmless and has an NSF registration for the foodstuffs sector. This means that it can be used in the foods and beverages industry and in the pharmaceuticals and cosmetics industries.



Clearance certificate for the application in the food industry, according to the USDA H1



400 ml 
11154400

Technical Data

Colour	beige
Odour	almost odourless
Special features	Loosens, lubricates, cleans and protects
Temperature resistance	-20 to +150°C (-4 to +302°F)
Storage stability	24 months

Rust Loosener Fluid loosens rusted and oxidised screw connections, bolts, levers, joints and hinges as well as seized mechanisms on components. Due to its excellent penetrating properties, Rust Loosener Fluid can also penetrate into the smallest cavities. It secures the function of mechanical parts and electrical contacts. The spray lastingly protects against corrosion and oxidation. It cleans and cares for metal surfaces, mechanical parts and electrical systems.

Due to its special formula and the resulting NSF registration, Rust Loosener Fluid can contribute towards the improvement of workplace safety and health protection.

Technical Sprays

Solvents and Release Agents

Rust Loosener and Contact Spray

6-fold function

Technical Data

Colour	beige
Odour	petroleum
Special features	6-fold function
Temperature resistance	-20 to +150°C (-4 to +302°F)
Storage stability	24 months



400 ml ✓
11150400

The six-fold function of Rust Loosener and Contact Spray makes it indispensable for repairs, maintenance and servicing. Thanks to its excellent creeping capacity, WEICON Rust Loosener and Contact Spray reaches even the smallest intermediate spaces. The 3-way spray valve makes it possible to work in any position (even overhead).

WEICON Rust Loosener and Contact Spray loosens rusted and stiff parts, screws, bolts, joints and hinges, dispels water from ignition systems, secures the function of mechanical parts and contacts, e.g. on distributor caps and spark plugs, sustainably protects against corrosion and oxidation, provides long-lasting lubrication to sliding surfaces, and cleans and cares for metal surfaces, mechanical parts and electrical systems.




Mould Release Agent

Silicone-free sliding and release agent

Mould Release Agent is a silicone-free sliding and release agent. The high-grade combination of active ingredients, consisting of pure natural products, has a high sliding effect which prevents its adhesion to plastics, moulds, metals and tools.

WEICON Mould Release Agent can be used in plastic processing and for spraying, pressing, and vacuum deforming.



400 ml 
11450400

Technical Data

Colour	colourless
Odour	solvent
Special features	silicone-free
Temperature resistance	-20 to +130°C (-4 to +266°F)
Storage stability	24 months



Technical Sprays

Solvents and Release Agents

Label Remover

Inclusive special spatula

WEICON Label Remover quickly and easily removes paper labels and residues of acrylate and caoutchouc-based pressure-sensitive adhesives.

Label Remover is suitable for many surfaces such as glass, metal, wood, foil and plastic.

WEICON Label Remover easily and safely removes adhesive labels, price tags (e.g. incorrect labels), address and product stickers, identification labels, and label residues. It also removes adhesive residues from foil labels such as vignettes on car windshields.



500 ml ✓
11206500

Technical Data

Colour	colourless
Odour	citrus
Special features	removes paper and foil labels
Temperature resistance	---
Storage stability	24 months

Chewing Gum Remover

Inclusive special spatula

Chewing Gum Remover even removes old chewing gum and plasticine residues. The chewing gum and plasticine residues are frozen when sprayed on with WEICON Chewing Gum Remover and can be detached immediately and without damaging textiles or floor coatings.

WEICON Chewing Gum Remover removes chewing gum and plasticine residues from upholstered furniture, bus seats (rigid foam), school chairs and tables, textile floorings of all types and elastic and hard floor coverings such as wood and stone floors, PVC and linoleum flooring.



400 ml ✓
11630400

Technical Data

Colour	---
Odour	almost odourless
Special features	removes even old chewing gum or modelling clay residues
Temperature resistance	---
Storage stability	24 months






W 44 T® Multi-Spray


Multifunctional oil with multiple effects

WEICON W 44 T® is a multifunctional product which, thanks to its special formula and outstanding creeping capacity, combines corrosion protection, water displacement, lubrication, conservation and cleaning in a single product.

WEICON W 44 T® loosens seized threads, bolts, fittings and valves, penetrates and dissolves rust, dispels moisture from electrical contacts, prevents tracking currents and makes it easier to start wet motors. It eliminates squeaky and creaky noises on



400 ml 
11251400

500 ml 
11251550

Technical Data

Colour	yellowish
Odour	vanilla
Special features	multifunctional oil with multiple effect
Temperature resistance	-50 to +210°C (-58 to +410°F)
Storage stability	24 months

hinges, guides, bearings and all types of joints and couplings. It cleans soiled metal surfaces and leaves a long-lasting razor-thin film which doesn't smear or stick and does not attract dust. It protects and preserves all types of tools, machines, and electrical and mechanical precision devices and keeps them functional.

WEICON W 44 T® knows almost no limitations in workshop, automotive, shipping, electrical, agricultural, household and hobby applications.



Double Nozzle

Only for the 500 ml product



Technical Sprays

Lubricating and Multifunctional Oils

Clearance certificate for the application in the food industry, according to the USDA H1



W 44 T® Fluid

Multifunctional oil for sensitive areas



400 ml ✓
11253400

W44T Fluid is a physiologically harmless multifunctional oil and has an NSF registration for the foodstuffs sector. This means that it can be used in the foods and beverages industry and in the pharmaceuticals and cosmetics industries.

The resin and acid-free oil unites lubrication, water displacement, corrosion protection, cleaning and conservation in one product due to a special active ingredient formula and excellent penetration properties.

W44T Fluid loosens seized screw connections, bolts, fittings, locks and valves, and penetrates and dissolves rust. It displaces the humidity from electrical contacts, prevents leakage current and facilitates the start-up of wet motors.

Technical Data

Colour	beige
Odour	almost odourless
Special features	loosens, lubricates, protects, separates and maintains
Temperature resistance	20°C to +150°C (-4°F to 302°F)
Storage stability	24 months

The oil removes squeaking and creaking noises on hinges, guides, bearings and all types of joints and couplings. It cleans contamination and metal surfaces and leaves a durable, thin film, which does not smear or stick or attract dust, and which protects and cares for all tools, machines, electrical and mechanical precision devices and keeps them functional.

Due to its special formula and the resulting NSF registration, W 44 T Fluid can contribute towards the improvement of workplace safety and health protection.

AT-44 Allround-Spray

With PTFE super power

WEICON AT-44 is an allround spray with PTFE and without silicon which, thanks to its special formula and very low friction coefficient, combines corrosion protection, cleaning, water displacement, lubrication and conservation in a single product. AT-44 loosens seized threads, bolts, fittings and valves, dispels moisture from electrical cables, prevents tracking currents and makes it easier to start wet motors. It eliminates squeaky and creaky noises on hinges, guides, bearings and all types of joints and couplings. It cleans soiled surfaces and leaves a razor-thin film which doesn't smear or stick and does not attract dust. It protects and preserves all types of tools, machines, and electrical and mechanical precision devices and keeps them functional.



150 ml ✓
11250150

400 ml ✓
11250400

WEICON AT-44 knows almost no limitations in workshop, automotive, shipping, electrical, agricultural, household and hobby applications.

Technical Data

Colour	yellowish
Odour	vanilla
Special features	with PTFE
Temperature resistance	-50 to +210°C (-58 to +410°F)
Storage stability	24 months





Fitting Spray

Free of silicones and resins

WEICON Fitting Spray is a maintenance and care product with good adhering properties, which contains no silicone, resin, acid or solvents. Thanks to its special creeping and water-rejecting properties, WEICON Fitting Spray reduces friction and wear and suppresses squeaky noises.

WEICON Fitting Spray is weather-resistant, protects against corrosion, and loosens dirt.

WEICON Fitting Spray can be used for the lubrication, servicing and maintenance of fittings on windows, doors, gates, garages, tilt-and-turn and shear fittings in many industrial applications.



200 ml ✓
11560200

Technical Data

Colour	colourless
Odour	odourless
Special features	resin- and acid-free mineral oil
Temperature resistance	-25 to +120°C (-13 to +248°F)
Storage stability	24 months



Anti-Friction Spray MoS₂

Dry lubricant

Anti-Friction Spray MoS₂ is a grease-free dry lubricant with pressure and temperature resistance from -185°C (-301°F) to +400°C (752°F). The layer repels dust, dirt and water, resists oils, greases and many chemicals and adheres to metals, plastics and wood surfaces.

The high portion of MoS₂ provides clean sliding lubrication, reduces friction, has excellent emergency running properties and reduces running noises.

WEICON Anti-Friction Spray MoS₂ shortens and improves the slide-in conditions for sliding bearings, gearings and other slide pairings, particularly at high pressure load and low sliding speed.



400 ml ✓
11539400

Technical Data

Colour	anthracite black
Odour	solvent
Special features	dry lubricant on MoS ₂ basis
Temperature resistance	-185 to +400°C (-301 to +752°F)
Storage stability	24 months

WEICON Anti-Friction Spray MoS₂ can be used on sliding and running rails and guides, conveyor belts, transport rollers and slides, as a coating for cutting, on loading technology products, as a substitute for release agents containing silicone, and wherever oil or grease lubrication is not permitted or desired.

Technical Sprays

Lubricating and Multifunctional Oils



Clearance certificate for the application in the food industry, according to the USDA H1

Bio-Fluid

High-purity mineral oil

WEICON Bio-Fluid is a medically pure white oil containing no resins or acids which was specially developed for lubrication and care. It is water-clear, free of solvents, odourless and tasteless, and water-rejecting. It has excellent creeping properties and an NSF approval.

Bio-Fluid reduces friction and wear, suppresses squeaky noises, protects against corrosion and removes dirt and rust.

Bio-Fluid can be used for the lubrication, protection and care of precision mechanisms, as a spray oil for production and filling plants, and as a lubricant for filling and packaging systems. It can be used wherever occasional, technically unavoidable contact with food or its packaging can occur.

WEICON Bio-Fluid was developed for applications in the food, beverage, pharmaceutical and cosmetic industries.



500 ml ✓
11600500

Technical Data

Colour	colourless
Odour	almost odourless
Special features	corresponds to purity grade of DAB10, USDA H1, FDA Regulations, FDA positive list
Temperature resistance	-25 to +120°C (-13 to +248°F)
Storage stability	24 months

Bio-Cut

Cutting oil

WEICON Bio-Cut contains no mineral oil, has water pollutant class 1 as a self-classification according to VwVwS (Verwaltungsvorschrift wassergefährdende Stoffe = German Administrative Regulation Regarding Water Pollutants), and is completely biodegradable. Thanks to its particularly high lubricating effect, Bio-Cut enables high cutting speeds, long tool lives and thus also high tool cutting performance.

WEICON Bio-Cut can be used for drilling, turning, milling, grinding, sawing, punching and thread-cutting in all industrial applications.



400 ml ✓
11750400

Technical Data

Colour	colourless
Odour	almost odourless
Special features	completely biodegradable
Temperature resistance	to +200°C (+392°F)
Storage stability	12 months



PTFE-Spray

Grease-free, excellent sliding properties (non-stick)

WEICON PTFE-Spray is a grease-free PTFE-based dry lubricant with excellent sliding properties. WEICON PTFE Spray adheres to all metal, plastic and wood surfaces. Its high PTFE content greatly reduces the friction coefficient. The coating repels dirt, dust and water and is resistant to oils, greases and many chemicals.

PTFE Spray can be used on runners and guides, conveyor belts, transport rollers, slides, windows, cutting tools and packing machines. It can also be used as a permanent lubricant for shafts in plastic bearings, as a water-rejecting coating for paper seals, cork seals and seal packaging, as a substitute for release agents containing silicone, and wherever oil or grease lubrication is not permitted or desired. The product can be used in many industrial applications.



400 ml ✓
11300400

Technical Data

Colour	white
Odour	solvent
Special features	PTFE basis
Temperature resistance	-180 to +250°C (-292 to +482°F)
Storage stability	24 months



PTFE-Fluid

New

Dry lubricant for sensitive areas

PTFE Fluid is a special dry lubricant with strong anti-adhesive effect, and has an NSF registration for the foodstuffs sector. This means that it can be used in the foods and beverages industry and in the pharmaceuticals and cosmetics industries.

Due to the high proportion of PTFE, the spray provides an anti-adhesive effect, through which the friction value on the coated surfaces is substantially reduced. PTFE Fluid is grease-free and adheres to all metal, plastic and wooden surfaces. The coating repels dirt, dust and water and is resistant against oils, greases and many chemicals. Due to its special formula and the resulting NSF registration, WEICON PTFE Fluid can contribute towards the improvement of workplace safety and health protection.



Clearance certificate for the application in the food industry, according to the USDA H2



400 ml ✓
11301400

Technical Data

Colour	whitish, transparent
Odour	almost odourless
Special features	PTFE basis
Temperature resistance	-180°C to +260°C (-292°F to +500°F)
Storage stability	24 months

The spray can be used as permanent lubrication in many sensitive industrial areas such as on sliding and running rails and guides, on conveyor belts, transport rollers and slides, on tilt mechanisms, locks and hinges, on cutting tools and packaging machines, for shafts in plastic bearings and as a coating for solid seals and assembly aids for seal packs.

Technical Sprays

Lubricating and Multifunctional Oils

Silicone Spray

Sliding and release agent

Technical Data

Colour	colourless
Odour	solvent
Special features	silicone oil basis
Temperature resistance	-50 to +250°C (-58 to +482°F)
Storage stability	24 months



400 ml ✓
11350400

WEICON Silicone Spray is a sliding and release agent as well as a preservative and care product for plastic, rubber and metal.

WEICON Silicone Spray provides a durable separating film and good surface properties.

Silicone Spray prevents the formation of adhesive residues on presses and guides, prevents products from sticking to conveyor belts, chutes and sliding ways, protects electrical contacts from moisture, preserves rubber, plastic and metal parts, protects rubber parts from becoming brittle, freezing and sticking and allows sunroof rails, seat tracks and seatbelt rollers to run smoothly.

Silicone-Fluid



Clearance certificate for the application in the food industry, according to the USDA H1

Special sliding and lubricating agent for sensitive areas

WEICON Silicone-Fluid is a special, physiologically harmless sliding agent and lubricant for sensitive areas. It has an NSF H1 approval for the foodstuffs industry, and can therefore be used in the foods and beverages industry and in the pharmaceuticals and cosmetics industries.

Silicone-Fluid is used as a separating, protection and care agent and can be used on very different surfaces such as plastic, metal, stainless steel and rubber.

Silicone-Fluid has a durable and good surface quality and is temperature-resistant up to +250°C (+482°F). Due to its special formula and the resulting NSF H1 approval, WEICON Silicone-Fluid is used to improve workplace safety and health protection.



400 ml ✓
11351400

Technical Data

Colour	colourless
Odour	odourless
Special features	NSF H1 approval
Temperature resistance	-30 to +250 °C (-22 to +482°F)
Storage stability	24 months



Top-Lub


Excellent creeping properties

Top-Lub is a synthetic, transparent adhesive lubricant for the permanent lubrication of all types of highly stressed mechanical parts.

WEICON Top-Lub has a high adhesive and spinning strength and outstanding creeping properties. It is pressure-resistant, water-rejecting and can also be used during on-going operation in compliance with the respective safety regulations. It does not attack the following plastics and elastomers: PTFE, PE, PA, fluorinated -, butadiene and silicone rubber, and polychloroprene. The following materials have a limited resistance: PE-LD, POM, PP, NBR.

WEICON Top-Lub can be used on power-transmitting bolts, gearwheels, worm gears, fast-running machine parts, joints, couplings, rollers, ball bearings and spring assemblies in many industrial applications.



400 ml 
11510400

Technical Data

Colour	colourless
Odour	mineral oil
Special features	particularly adhesive, pressure-resistant, and water-repellent. With excellent creep properties
Temperature resistance	-40 to +200°C (-40 to +392°F)
Storage stability	24 months



Top-Lub-Fluid New

Adhesive lubricant for sensitive areas


Top-Lub Fluid is a special adhesive lubricant and has an NSF registration for the foodstuffs sector, meaning that it can be used in the foods and beverages industry and in the pharmaceuticals and cosmetics industries.

Top-Lub Fluid is particularly adherent and pressure-resistant, with excellent penetration properties, and is also noise-damping and water-repellent. The spray prevents elongation, friction and wear.



Clearance certificate for the application in the food industry, according to the USDA H2



400 ml 
11511400

Technical Data

Colour	slightly yellowish
Odour	neutral
Special features	synthetic, transparent
Temperature resistance	-20°C to +250°C (-4°F to 482°F)
Storage stability	24 months

Due to its special formula and the resulting NSF registration, WEICON Top-Lub Fluid can contribute towards the improvement of workplace safety and health protection.

The spray can be used on toothed wheels and worm gears, on joints and couplings, on rollers and bearings, on chains and wire cables or on spring assemblies as well as in numerous industrial fields.

Adhesive Lubricants

Technical Data

Colour	colourless
Odour	mineral oil
Special features	particularly adhesive, pressure-resistant, extremely creeping-capable, sound-absorbent
Temperature resistance	-40 to +200°C (-40 to +392°F)
Storage stability	24 months



400 ml ✓
11500400

Chain and Rope Lube Spray

Adherent high pressure resistant

WEICON Chain and Rope Lube Spray is a synthetic, transparent adhesive lubricant for the permanent internal and external lubrication of all types of highly stressed chains and wire ropes.

Chain and Rope Lube Spray is particularly strongly adherent, has excellent creeping properties, suppresses noise, repels water and prevents elongation, friction and wear.

WEICON Chain and Rope Lube Spray can be used on all types of chains and wire ropes, gearwheels, worm gears, fast-running machine parts, joints, couplings, rollers, ball bearings and spring assemblies in many industrial applications.






Spray-on Grease white

All-purpose sprayable grease

Spray-on Grease white is a multi-purpose sprayable grease with an outstanding adhering strength and excellent aging and pressure resistance. The addition of special wear-reducing and corrosion-inhibiting additives allows it to achieve temperature stability from -20°C to $+150^{\circ}\text{C}$ (-4 to $+302^{\circ}\text{F}$) in combination with a long service life. As with transparent products, a visual inspection is possible at all times.

WEICON Spray-on Grease white can be used for the long-term lubrication of rods, gearwheels, rollers, ball bearings, hinges, guides and all types of joints and couplings in many industrial applications.



400 ml 
11520400

Technical Data

Colour	white
Odour	solvent
Special features	very good adhesive and lubricating properties
Temperature resistance	-20 to $+150^{\circ}\text{C}$ (-4 to $+302^{\circ}\text{F}$)
Storage stability	24 months

Universal Spray-on Grease with MoS₂


High pressure resistant

WEICON Universal Spray-on Grease with MoS₂ is a high-pressure resistant and strong long-term lubricant which reduces friction and wear for prolonged periods.

WEICON Universal Spray-on Grease with MoS₂ is suitable for rolling and slide bearings, joints, levers, sliding guides, spindles, camshafts, spline shafts, springs, exposed gears and worm gears and at all sliding speeds permitted for grease lubrication.

WEICON Universal Spray-on Grease with MoS₂ can be used in the industrial and building sectors, in rolling mills, machine tools, agricultural and construction machines and in road and rail vehicles.



400 ml 
11530400

Technical Data

Colour	black
Odour	almost odourless
Special features	high-pressure resistant,
Temperature resistance	-20 to $+120^{\circ}\text{C}$ (-4 to $+248^{\circ}\text{F}$)
Storage stability	24 months



Grease Sprays



Clearance certificate for the application in the food industry, according to the USDA H1

Spray-on Grease H1

High temperature grease

Technical Data

Colour	yellowish-white
Odour	almost odourless
Special features	odour- and tasteless high-temperature grease
Temperature resistance	-40 to +160°C (-40 to +320°F)
Storage stability	24 months



400 ml ✓
11541400

WEICON Spray-on Grease H1 is an odourless and tasteless grease that has been specially formulated to meet the requirements of the food, cosmetic and pharmaceutical industry. It is high-temperature resistant and has an NSF approval.

Spray-on Grease H1 is particularly suited for servicing and maintenance in breweries and in the beverage industry, in industrial slaughterhouses, canneries, coffee-roasting establishments, industrial kitchens, swimming pools, hotels, hospitals and wherever direct contact with food cannot be excluded.

Adhering Grease - extra strong -

Also for underwater applications

WEICON Adhering Grease extra strong is a special lubricant and corrosion protectant even for underwater applications. It provides effective protection against aggressive fluids in maritime applications and in wet plants.

Adhering Grease extra strong is suitable for rolling and sliding bearings even in mixed friction operation, for joints, levers, sliding guides, spindles, spline shafts, exposed gears, worm gears, chains and wire cables and at all sliding speeds permitted for grease lubrication. The product can be used in many applications.



400 ml ✓
11540400

Technical Data

Colour	beige
Odour	almost odourless
Special features	adhering even under water
Temperature resistance	-25 to +80°C (-13 to +176°F)
Storage stability	24 months



Anti-Seize Assembly Spray

Reliable protection against corrosion, seizing and cold welding

WEICON Anti-Seize Assembly Spray is high temperature resistant and has excellent separating characteristics.

WEICON Anti-Seize is used as a protecting, separating and lubricating agent for highly stressed parts. Ideally compatible solid contents and selected additives enable a wide range of usage.

WEICON Anti-Seize protects against corrosion, seizure and wear, stick-slip phenomena, oxidation, fretting corrosion and electrolytic reactions („cold welding“). The product can be used in many industrial applications.

100 ml ✓
27000100



400 ml ✓
27000400

Technical Data

Basic Oil	synthetic oil mixture
Colour	anthracite
VKA-TEST (DIN 51350) goods load	4200 N
VKA-TEST (DIN 51350) welding load	4400 N
VKA-TEST (DIN 51350) Spherical cap value (1 min/1000N)	0,5 mm
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Water resistance (DIN 51807)	0 - 90
Temperature resistance	-180 to +1.200°C (-292 to +2.192°F)
Pressure load	230 N/mm ² (33.400 psi)
Density at +20°C/+68°F (DIN 51757)	1,16 g/cm ³
Salt spray test	> 170 h
Thermal conductivity	0,3 W/m·K
Dielectric strength	0,47 kV/mm



Anti-Seize Assembly Spray „High-Tech“

Metal-free, NSF-tested

Anti Seize „High-Tech“ Assembly Spray is high temperature resistant, has excellent separating characteristics, is metal-free, neutral to materials and has an NSF approval.

Anti-Seize „High-Tech“ is particularly suitable when metal-containing pastes can cause electrolytic reactions, and when nickel-containing products should or may not be used due to health reasons and when dark metal-containing products should or may not be used for optical reasons. The product can be used in many industrial applications.



400 ml ✓
27050400



Clearance certificate for the application in the food industry, according to the USDA H1

Technical Data

Basic Oil	medicinal oil
Colour	white
VKA-TEST (DIN 51350) goods load	3600 N
VKA-TEST (DIN 51350) welding load	3800 N
VKA-TEST (DIN 51350) Spherical cap value (1 min/1000N)	0,7
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Water resistance (DIN 51807)	1 - 90
Temperature resistance	-40 to +1.400°C (-40 to +2.552°F)
Pressure load	230 N/mm ² (33.400 psi)
Density at +20°C/+68°F (DIN 51757)	1,42 g/cm ³
Salt spray test	> 170 h
Thermal conductivity	0,7 W/m·K
Dielectric strength	0,40 kV/mm

Technical Sprays

Assembly Sprays

Copper Paste Assembly Spray

Protecting, separating and lubricating agent for highly stressed parts in high-temperature applications



400 ml ✓
27200400

WEICON Copper Paste Assembly Spray is a protecting, separating and lubricating agent which is high temperature resistant, corrosion resistant and strong. It contains no sulphur, lead or nickel.

Copper Paste Assembly Spray is used as an assembly lubricant for all kinds of threaded joints and sliding surfaces. It forms an effective lubricating and separating film which protects the functional surfaces on plug-in tools, wear bushings, screws, and all kinds of threaded, plug-in and bayonet joints against corrosion and seizing.

It can be used to reduce vibration on brake blocks and guides, brake cams and pins, car and truck battery terminals and other electrical connections, wheel bolts and nuts, and on wear bushings at electrical, compressed air and hydraulic hammers.

Technical Data

Consistency assignment (DIN 51818)	NLGI-Class 1
Colour	copper
Thickener	aluminium complex soap
Basic oil	mineral oil
Solid lubricant	copper / graphite
VKA-Test (DIN 51350) Welding load	3200 N
Density	1,1 g/cm ³
Kinematic viscosity basic oil (+40°C/+104°F DIN 51562)	180 mm ² /s
Drop point (IP 396)	+180°C (+356°F)
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Temperature resistance	-20 to +1.100°C (-4 to +2.012°F)




Adhesive Spray - extra strong -

Special product for strong and reliable adhesions

Adhesive Spray extra strong is a special formula for strong and permanent bonds on rough and uneven surfaces. A special valve allows the adhesive quantities to be adjusted with infinite variability.

WEICON Adhesive Spray extra strong can be used for the bonding of felt, PVC foil, imitation leather, carpets, plastics, cardboard, foam and cellular rubber, insulating materials, soft foam, vinyl, leather, rubber, metal and wood. It is also suitable for large-area adhesive bonding.

500 ml 
11801500



Technical Data


Basis	synthetic rubber
Processing temperature	+10 to +30°C (+50 to +86°F)
Evaporation time	5 to 10 minutes
Working time	maximum 45 minutes
Temperature resistance	-20 to +80°C (-4 to +176°F)
Coverage per can	approx. 4 m ²

Adhesive Spray

Universal use

WEICON Adhesive Spray can be used universally and bonds light materials to themselves and among each other.

Adhesive Spray is suitable for the bonding of numerous materials such as paper, cardboard, pasteboard, wood, thin veneers, cork, leather, textiles, felt, soft foam, rubber, foam rubber, and plastic film (except for PVC and polyethylene). It is especially suited for the bonding of hard foam (e.g. polystyrene).

500 ml 
11800500



Technical Data

Basis	synthetic rubber
Processing temperature	+10 to +30°C (+50 to +86°F)
Evaporation time	5 to 15 minutes
Working time	maximum 30 minutes
Temperature resistance	-20 to +65°C (-4 to +149°F)
Coverage per can	approx. 4 m ²



Technical Sprays

Adhesive Sprays

Adhesive Spray - for detachable joints -

Transparent

Technical Data

Basis	synthetic rubber
Processing temperature	+10 to +30°C (+50 to +86°F)
Evaporation time	5 to 15 minutes
Working time	maximum 45 minutes
Temperature resistance	-20 to +65°C (-4 to +149°F)
Coverage per can	approx. 13 m ²



500 ml
11802500

WEICON Adhesive Spray for detachable joints is especially suited for detachable and adjustable joints. It is colourless, does not soak through or cause discolouration, and does not leave a wavy surface, even when used on thin materials.

Adhesive Spray for detachable joints can be used to bond paper, cardboard and foils to themselves and among each other. The joint is detachable when the spray is applied to one side; applying the spray to both sides makes the joint permanent.

WEICON Adhesive Spray for detachable joints can be used, for example, to fuse templates, billboards, posters, photos, decorations in trade show construction, layouts and technical drawings.





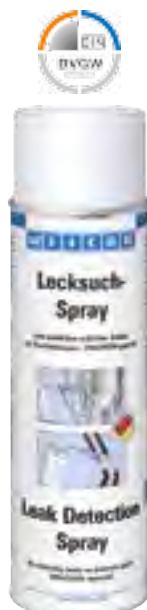
Leak Detection Spray


**Non flammable, anticorrosive,
DIN-DVGW-tested**

Leak Detection Spray is non-flammable, anti-corrosive, kind to the skin and DIN-DVGW-tested (certificate 5170AO0666). The spray is used for the fast, convenient and reliable location of leaks (cracks or porous spots) in pressurized pipes.

WEICON Leak Detection Spray does not form any hazardous compounds with carbon dioxide (CO₂), propane, butane, acetylene, oxygen, city or natural gases.

Leak Detection Spray can be used wherever compressed air, natural or liquid gas is processed, and wherever leaky points can occur on fittings, threaded joints, and connections. It greatly contributes to the safety of pneumatic brakes and gas lines.



400 ml 
11651400

Technical Data

Colour	milky
Odour	almost odourless
Special features	DVGW-tested for oxygen and CO ₂
Temperature resistance	0 to +50°C (+32 to +122°F)
Storage stability	24 months



Freeze Spray

Pin-pointed chilling down to -45°C

WEICON Freeze-Spray has many uses and is suitable for fault-finding in electronics and for repair works in industrial sector.


Freeze Spray quickly cools parts down to -45°C and allows pinpointed chilling of even the smallest construction parts.

WEICON Freeze Spray is non-conductive and neutral to materials (with the exception of plastic) and can be used in many industrial and technical applications.



Technical Data

Colour	---
Odour	almost odourless
Special features	targeted cooling down to -45°C (-49°F)
Temperature resistance	---
Storage stability	24 months

400 ml 
11610400

Technical Sprays

Special
Sprays

Technical Data

Colour	colourless
Odour	solvent
Special features	silicone-free evaporates without residues
Storage stability	24 months



150 ml ✓
11640150

250 ml ✓
11640250

Smoke Detector Test Spray

Silicone-free, evaporates without leaving residues

Smoke Detector Test Spray can quickly and reliably test the functional capacity of optical and photoelectrical smoke detectors without additional testing instruments.

The use of WEICON Smoke Detector Test Spray does not contaminate the detectors because the spray evaporates without leaving residues.

WEICON Smoke Detector Test Spray can be used in all applications involving photoelectrical fire detectors – for example, in industrial plants, public facilities or private residences.

Technical Data

Colour	colourless
Odour	solvent
Special features	for all combustion engines
Temperature resistance	---
Storage stability	24 months



400 ml ✓
11660400

Starter Spray

For all combustion engines

WEICON Starter Spray is suitable for the easy and safe starting of combustion engines. The safe cold starting of all engines is made possible by a special combination of ingredients.

Starter Spray is ideal at low temperatures, in damp weather or after longer engine downtimes. The spray protects both the engine and the battery.

Starter Spray is suited for both diesel and petrol engines. Whether with or without a catalytic converter, whether a motor vehicle, construction machinery, agricultural machinery, chain saws, lawn mowers, boat engines, motorcycles or scooters – WEICON Starter Spray can be used everywhere.

Technical Data

	Colour	Odour	Temp. resistance	Content	Shelf life (months)	Special features
Adhering Grease - extra strong -	beige	almost odourless	-25°C (-13°F) up to +80°C (+176°F)	400 ml	24	adhering even under water
Adhesive Spray	beige	solvent	-20°C (-4°F) up to +65°C (+149°F)	500 ml	12	large surface bonding of light materials
Adhesive Spray - extra strong -	yellowish	solvent	-20°C (-4°F) up to +80°C (+176°F)	500 ml	12	bonding of big surfaces, even with absorbing materials
Adhesive Spray - for detachable joints -	colourless	solvent	-20°C (-4°F) up to +65°C (+149°F)	500 ml	12	does not strike through nor leaves wavy surfaces
Anti-Friction Spray MoS ₂	anthracite black	solvent	-185°C (-301°F) up to +400°C (+752°F)	400 ml	24	dry lubricant on MoS ₂ basis
Alu Grinding Protection	colourless	solvent	-20°C (-4°F) up to +130°C (+266°F)	400 ml	24	silicone-free
Anti-Seize Assembly Spray	anthracite	synthetic oil mixture	-180°C (-292°F) up to +1.200°C (+2.192°F)	400 ml	24	extremely high pressure resistance, corresponds to MIL907D
Anti-Seize Assembly Spray „High Tech“	white	medical white oil	-40°C (-40°F) up to +1.400°C (+2.552°F)	400 ml	24	perfect protection against the seizing of high-alloy steels, NSF H1
AT-44 Allround-Spray	yellowish	vanilla	-50°C (-58°F) up to +210°C (+410°F)	150 ml 400 ml	24	high-performance lubricating oil with PTFE
Belt Dressing Spray	colourless	mineral oil	-40°C (-40°F) up to +80°C (+176°F)	400 ml	24	suitable for highly-stressed power-transmission belts
Bio-Cut	colourless	almost odourless	up to +200°C (+392°F)	400 ml	12	completely biodegradable
Bio-Fluid	colourless	almost odourless	-25°C (-13°F) up to +120°C (+248°F)	500 ml	24	corresponds to purity grade of DAB10, USDA H1, FDA Regulations, FDA positive list
Brake Cleaner	colourless	citrus	---	500 ml	24	evaporates without residues
Burner Cleaner	colourless	citrus	---	500 ml	24	evaporates without residues
Chewing Gum Remover	---	almost odourless	---	400 ml	24	removes even old chewing gum or modelling clay residues
Chain and Rope Lube Spray	colourless	mineral oil	-40°C (-40°F) up to +200°C (+392°F)	400 ml	24	particularly adhesive, pressure-resistant, extremely creeping-capable, sound-absorbent
Citrus Cleaner	colourless	citrus	---	400 ml	24	evaporates without residues
Cleaner Spray S	colourless	orange	---	500 ml	24	evaporates without residues
Cockpit-Spray	colourless	citrus	---	400 ml	24	discreet satin finish
Compressed-Air Spray	---	almost odourless	---	400 ml	24	cleans in a contact-free manner
Contact Spray	transparent	solvent	-20°C (-4°F) up to +150°C (+302°F)	400 ml	24	dispels moisture, protects electrical contacts
Copper Paste Assembly Spray	copper	mineral oil	-20°C (-4°F) up to +1.100°C (+2.012°F)	400 ml	24	high temperature resistant
Corro-Protection	milky	solvent	-20°C (-4°F) up to +80°C (+176°F)	400 ml	24	on a wax basis
Electro Contact Cleaner	colourless	solvent	---	400 ml	24	high-purity solvents
Fast Cleaner	colourless	solvent	-10°C to +50°C (+14°F to +122°F)	400 ml	24	NSF K1/K3 approval
Fitting Spray	colourless	odourless	-25°C (-13°F) up to +120°C (+248°F)	200 ml	24	resin- and acid-free mineral oil
Freeze Spray	---	almost odourless	---	400 ml	24	targeted cooling of even the smallest components down to -45°C (-49°F)
Hand Protective Foam	white	odourless	---	200 ml	24	with liposomes, dermatologically tested
Label Remover	colourless	citrus	---	500 ml	24	removes paper and foil labels with special spatula

New

Technical Sprays

Technical Data

	Colour	Odour	Temp. resistance	Content	Shelf life (months)	Special features
Leak Detection Spray	milky	almost odourless	0°C (+32°F) up to +50°C (+122°F)	400 ml	24	DVGW-tested for oxygen and suited for CO ₂
Metal-Fluid	milky	almost odourless	---	400 ml	24	antistatic effect
Mould Cleaner	colourless	citrus	---	500 ml	24	removes waxes, oils, silicones and other impurities from moulds and tools
Mould Release Agent	colourless	solvent	-20°C (-4°F) up to +130°C (+266°F)	400 ml	24	silicone-free
Multi-Foam	white	citrus	---	400 ml	24	biodegradable
Parts and Assembly Cleaner	colourless	mineral oil	---	500 ml	24	high flash point (>+60°C/+140°F)
Plastic Cleaner	colourless	citrus	---	500 ml	24	for sensitive plastic surfaces
New PTFE Fluid	whitish, transparent	almost odourless	-180°C (-292°F) to +260°C (+500°F)	400 ml	24	NSF H2 approval
PTFE-Spray	white	solvent	-180°C (-292°F) up to +250°C (+482°F)	400 ml	24	dry lubricant on a PTFE basis
Rust Loosener and Contact Spray	beige	petroleum	-20°C (-4°F) up to +150°C (+302°F)	400 ml	24	6-fold function
New Rust Loosener Fluid	beige	almost odourless	-20°C (-4°F) to +150°C (+302°F)	400 ml	24	loosens, lubricates, cleans and protects, NSF H1 approval
Rust-Shock	transparent	solvent	---	400 ml	12	removes rusted-tight screw connections of any type in seconds
Screen Cleaner	white	almost odourless	---	200 ml	24	also suitable for sensitive plastic and glass surfaces
Sealant and Adhesive Remover	pink	solvent	---	400 ml	12	powerful
Silicone-Fluid	colourless	odourless	-30 to +250°C (-22 to +482°F)	400 ml	24	NSF H1
Silicone Spray	colourless	solvent	-50°C (-58°F) up to +250°C (+482°F)	400 ml	24	silicone oil basis
Smoke Detector Test Spray	colourless	solvent	---	150 ml 250 ml	24	silicone-free, evaporates without residues
Spray-on Grease H1	yellowish-white	almost odourless	-40°C (-40°F) up to +160°C (+320°F)	400 ml	24	odour- and tasteless high-temperature grease
Spray-on Grease white	white	solvent	-20°C (-4°F) up to +150°C (+302°F)	400 ml	24	very good adhesive and lubricating properties
Stainless Steel Care Spray	colourless	almost odourless	-20°C (-4°F) up to +130°C (+266°F)	400 ml	24	antistatic effect, indoors and outdoors
Starter-Spray	colourless	solvent	---	400 ml	24	for all combustion engines
Surface Cleaner	colourless	solvent	---	400 ml	24	before the application of WEICON adhesives and sealants
Top-Lub	colourless	mineral oil	-40°C (-40°F) up to +200°C (+392°F)	400 ml	24	particularly adhesive, pressure-resistant, and water-repellent. With excellent creep properties
New Top-Lub-Fluid	slightly yellowish	neutral	-20°C to +250°C (-4°F to +482°F)	400 ml	24	synthetic, transparent, NSF H2 approval
Universal Spray on Grease with MoS ₂	black	almost odourless	-20°C (-4°F) up to +120°C (+248°F)	400 ml	24	high-pressure resistant, long-term grease
Visor Cleaner	white	almost odourless	---	200 ml	24	cleaning without residues and neutral to surfaces
W 44 T® Multi-Spray	yellowish	vanilla	-50°C (-58°F) up to +210°C (+410°F)	400 ml 500 ml	24	multifunctional oil with multiple effect
New W 44 T® Fluid	beige	almost odourless	-20°C to +150°C (-4°F to +302°F)	400 ml	24	loosens, lubricates, protects, separates and maintains, NSF H1 approval
Welding Protection Spray	colourless	solvent	---	400 ml	24	SLV-tested, silicone-free



Surface- and Anti-Corrosion Coating

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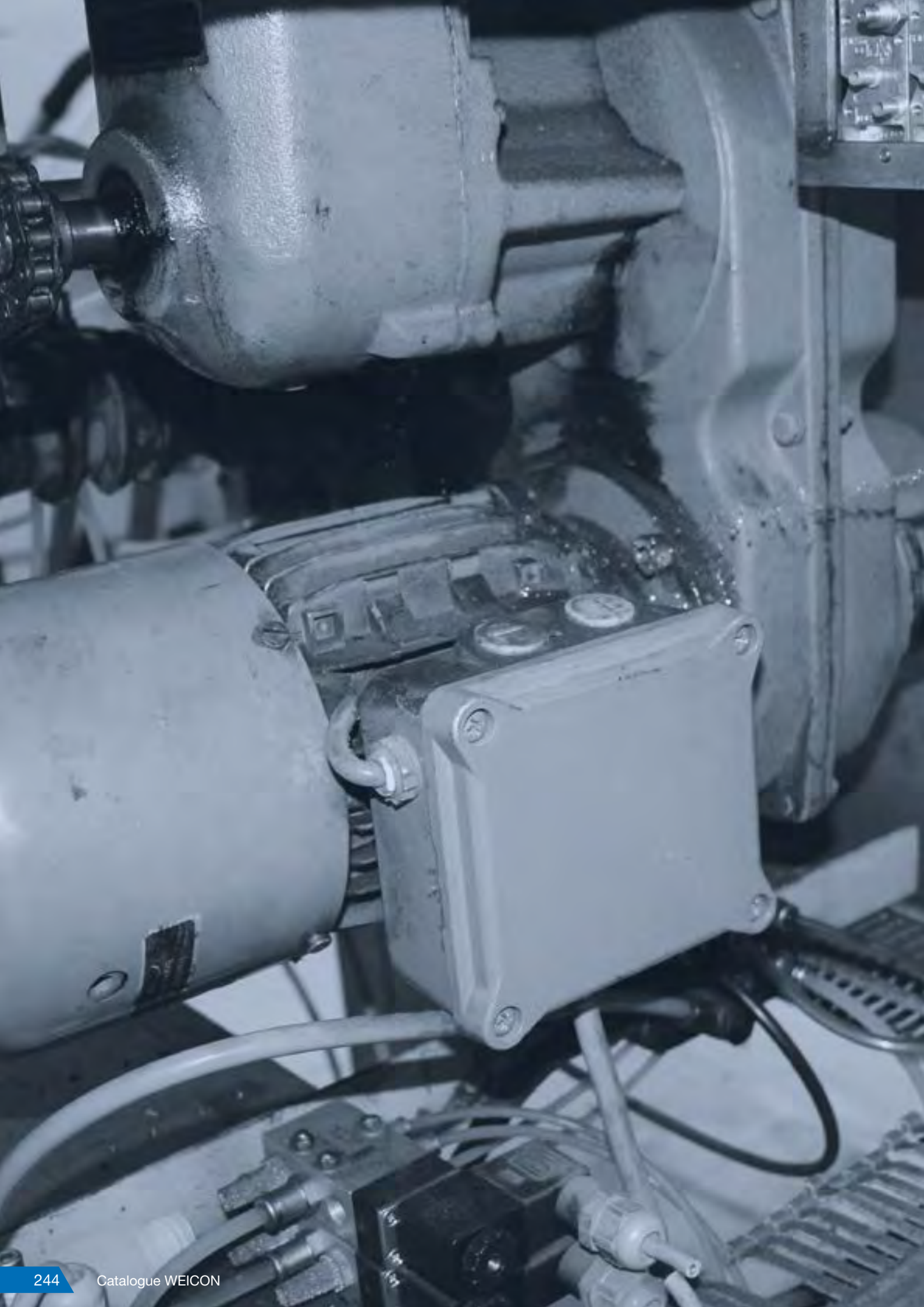
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Technical Liquids

WEICON Technical Liquids

Environmentally-friendly, economical, effective

Environmental protection, economic efficiency and health and safety at work - these are all requirements which every company has to fulfil to an increasing degree. That is why products and production systems that reach these requirements are becoming all the more important.

WEICON Technical Liquids meet the highest demands:

- They contain no flammable propellants
- No extensive or costly disposal is necessary
- Emissions are reduced
- Less packaging waste
- Only the substance itself is processed



WEICON Technical Liquids are available for the following areas of application:

- Cleaning and degreasing
- Lubrication, care and maintenance
- Release and separating
- Surface and anti-corrosion coatings

WEICON

Zinkausbesserung

Corro-Protection

Corrosion protection for indoor storage and overseas shipment of metals

WEICON protective film approved by the German TÜV. It lastingly preserves tools and precision components with a dry and waxy layer.

WEICON Corro Protection can be used as safe corrosion protection for bare, unpainted metal parts, for the indoor storage of work-pieces, as corrosion protection during overseas transport and for the conservation of tools and precision components. The protective layer can be removed easily (e.g. with WEICON Cleaner S).



5 l ✓
15550005

10 l ✓
15550010

30 l ✓
15550030

Technical Data

Colour	clear
Odour	solvent
Temperature resistance	approx. -20 to +80°C (-4 to +176°F)
Shelf life min.	24 months
Special features	RWTÜV-tested, wax-based
Suitable for use with	WSD 400 and WPS 1500 (The material must be stirred thoroughly before use.)

Technical Data

Colour shade / level of brilliance	aluminium / metallic shine
Binding agent	alkyd combination
Pigment	aluminium pigments (D50 16 µm)
Pigment purity	approx. 99,5%
Specific weight	1,00 g/cm ³
Percentage of metal in dry film	approx. 32,0%
Viscosity (DIN EN ISO 2431)/Consistency	approx 120 s 4mm / stretchable
Processing temperature	+18 to +30°C (+64 to +86°F)
Consumption	approx. 150 ml/m ²
Spray consistency	10 - 20% universal thinning
Dust dry after	60 min.
Hardened after	12 h
Recoatible/can be reprimed after	12 h
Final hardness after	48 h
Minimum layer thickness	20 µm
Cross-cut test (DIN 53151)	characteristic value GT 0 to GT 1
Salt spray test (DIN 50021, DIN EN ISO 9227)	100 h
Mandrel bending test mandrel 5 mm (DIN EN ISO 1519)	no formation of hairline cracks
Temperature resistance	approx. +300°C (+572°F) (rom +100°C/212°F slight discolourations are possible)
Primer	WEICON Brushable Zinc Paint / Brushable Zinc Coating
Shelf life	12-18 months

Aluminium Paint*

Effective, abrasion resistant



375 ml ✓
15002375

750 ml ✓
15002750

Aluminium Paint is used as corrosion protection and for the optical enhancement of metallic surfaces. Upon contact with moisture, aluminium pigments form a dense, almost impermeable oxide layer on the surface which prevents further moisture penetration.

High abrasion-resistance and a long colour shade guarantee are achieved by pigments which evenly distribute themselves throughout the entire coating upon application.

This protects WEICON Aluminium Paint against abrasion and chemical effects after it has thoroughly hardened.

*



Not to spray with WSD 400 and WPS 1500. Just for brushing and / or application.

Technical Liquids

Surface and Anti-Corrosion Coating

Brushable Liquid Zinc Paint*

Efficient cathodic corrosion protection

WEICON Brushable Liquid Zinc Paint is a coating used to actively and permanently protect metallic substrates against corrosion.

Brushable Liquid Zinc Paint uses high concentration and pure spherical (round) metal pigments. The high amount of zinc in the coating ensures efficient cathodic corrosion protection. If the surface is damaged, the zinc molecules react with the air humidity to form zinc oxide molecules which protect the base material from corrosion.



375 ml ✓
15000375

750 ml ✓
15000750

Technical Data

Colour shade / level of brilliance	zinc-grey / matt
Binding agent	epoxy resin ester
Pigment	zinc pigments (D50 4 µm)
Pigment purity	approx. 98,5%
Specific weight	1,96 g/cm ³
Percentage of metal in dry film	approx. 60,5%
Viscosity (DIN EN ISO 2431)/Consistency	approx. 70 s 4mm/stretchable
Processing temperature	+18 to +30°C (+64 to +86°F)
Consumption	approx. 120 ml/m ²
Spray consistency	10 - 20% universal thinning
Dust dry after	30 min.
Hardened after	12 h
Recoatible/can be reprimed after	12 h
Final hardness after	48 h
Minimum layer thickness	50 µm
Cross-cut test (DIN 53151)	characteristic value GT 0 to GT 1
Salt spray test (DIN 50021, DIN EN ISO 9227)	400 h
Mandrel bending test mandrel 5 mm (DIN EN ISO 1519)	no formation of hairline cracks
Temperature resistance	approx. +400°C (+752°F)
Primer	not necessary
Shelf life	12-18 months

Brushable Liquid Zinc Coating*

Colour: Galvanized

WEICON Brushable Liquid Zinc Coating provides active protection against corrosion for all metallic surfaces and is available in a colour shade matched to the galvanization.

With Brushable Liquid Zinc Coating, flaky metal pigments settle parallel to the surface in several, spatially displaced layers on the substrate (shingle effect). This protects the surface longer from penetrating moisture. Optimal corrosion protection is achieved in connection with the simultaneous electro-chemical effect.



375 ml ✓
15001375

750 ml ✓
15001750

Technical Data

Colour shade / level of brilliance	galvanized / metallic shine
Binding agent	alkyd resin
Pigment	zinc and aluminium pigments (D50 25 µm)
Pigment purity	approx. Al 99,5% and Zn 99,9%
Specific weight	1,25 g/cm ³
Percentage of metal in dry film	approx. 58,5%
Viscosity (DIN EN ISO 2431)/Consistency	approx. 70 s 4 mm / stretchable
Processing temperature	+18 to +30°C (+64 to +86°F)
Consumption	approx. 120 ml/m ²
Spray consistency	10 - 20 % universal thinning
Dust dry after	60 min.
Hardened after	12 h
Recoatible/can be reprimed after	12 h
Final hardness after	48 h
Minimum layer thickness	30 µm
Cross-cut test (DIN 53151)	characteristic value GT 0 to GT 1
Salt spray test (DIN 50021, DIN EN ISO 9227)	200 h
Mandrel bending test mandrel 5 mm (DIN EN ISO 1519)	no formation of hairline cracks
Temperature resistance	approx. +240°C (+464°F)
Primer	not necessary
Shelf life	12-18 months



Surface Cleaner

Pretreatment of bonding surfaces

WEICON Surface Cleaner is used for the cleaning and degreasing of surfaces to be joined or sealed with WEICON adhesives and sealants.

Surface Cleaner can be applied on materials like metal, glass, ceramics and most plastics.

WEICON Surface Cleaner can be used, for example, to clean and degrease machine components in the course of maintenance work.



5 l ✓
15207005

10 l ✓
15207010

30 l ✓
15207030

Technical Data

Colour	clear
Odour	citrus
Temperature resistance	---
Shelf life min.	24 months
Special features	evaporates without residues
Suitable for use with	WSD 400 and WPS 1500

Cleaner S

Degreases and cleans all metals, glass, ceramics and most plastics

WEICON Cleaner S cleans, degreases and evaporates without leaving residues.

It can be used on all metals, glass, and ceramics, and on most plastics, and thermo-plastics such as PVC, PMMA (acrylic glass), polystyrene etc.

WEICON Cleaner S can be used for cleaning and degreasing before priming and painting, for cleaning machine parts or before other WEICON products are applied on surfaces where a greasy underground would impair their effect.



5 l ✓
15200005

10 l ✓
15200010

30 l ✓
15200030

Technical Data

Colour	clear
Odour	orange
Temperature resistance	---
Shelf life min.	24 months
Special features	evaporates without residues
Suitable for use with	WSD 400 and WPS 1500



Technical Liquids Cleaner and Degreaser

Plastic Cleaner

Degreases and cleans sensitive surfaces

WEICON Plastic Cleaner cleans, degreases and evaporates without leaving residues. It can be used to clean and degrease sensitive surfaces such as plastics*, rubber materials or powder-coated metal parts.

Plastic Cleaner can be used, for example, on window frames, roller blinds, plastic profiles, seals or lacquered flanges in many industrial applications.



5 l ✓
15204005

10 l ✓
15204010

30 l ✓
15204030

Technical Data

Colour	clear
Odour	citrus
Temperature resistance	---
Shelf life min.	24 months
Special features	for sensitive plastic surfaces
Suitable for use with	WSD 400 and WPS 1500



*Before use, check surface compatibility





Brake Cleaner

Multi-purpose cleaner, especially for the automotive sector

WEICON Brake Cleaner is a universal cleaner for the automotive industry, which cleans, degreases and evaporates without leaving residues.

WEICON Brake Cleaner quickly and effortlessly degreases and cleans metals, glass and many plastics. It removes oily and greasy impurities and residues.

Brake Cleaner can be used on brakes (drum and disc brakes, brake pads, brake blocks, cylinders, springs and bushings), clutches (clutch linings and components) and on engine parts (carburetors, fuel and oil pumps, gears etc.).



5 l ✓
15201005

10 l ✓
15201010

30 l ✓
15201030

Technical Data

Colour	clear
Odour	citrus
Temperature resistance	---
Shelf life min.	24 months
Special features	evaporates without residues
Suitable for use with	WSD 400 and WPS 1500

Citrus Cleaner

Cleaner and degreaser on the basis of citrus essences

WEICON Citrus Cleaner is a universal cleaner based on citrus peel extracts. It cleans machines and systems, precision engineering components and precision mechanisms in industry and small trades. Citrus Cleaner easily removes adhesive residues, contamination due to oils, greases, resin and tar, lubricants as well as rubber residues and -abrasion. The product can even be used for contamination caused by pencils, ballpoint pens and felt pens.

WEICON Citrus Cleaner cleans the most diverse surfaces such as metal, plastic, glass, ceramic or painted and lacquered surfaces. Citrus Cleaner can be used universally and, for example, in industry and small trade, window construction, public facilities and means of transport, construction companies and in the household.



5 l ✓
15210005

10 l ✓
15210010

30 l ✓
15210030

Technical Data

Colour	clear
Odour	citrus
Temperature resistance	---
Shelf life min.	24 months
Special features	for sensitive surfaces
Suitable for use with	WSD 400 and WPS 1500

Technical Liquids

Cleaner and Degreaser

Mould Cleaner

Cleaner on the basis of highly active organic solvents

Technical Data

Colour	clear
Odour	citrus
Temperature resistance	---
Shelf life min.	24 months
Special features	evaporates without residues
Suitable for use with	WSD 400 and WPS 1500



WEICON Mould Cleaner is a special cleaner based on highly active organic solvents. It effectively removes waxes, silicones, oils, non-cured PUR residues and other impurities from plastic, steel or aluminium moulds.



5 l ✓
15203505

10 l ✓
15203510

30 l ✓
15203530

Electro Contact Cleaner

Cleans and degreases electronic or mechanical components

WEICON Electro Contact Cleaner is a special cleaner for the fast and effective cleaning and degreasing of all kinds of soiled or corroded contacts.

WEICON Electro Contact Cleaner was specially developed for the cleaning of electrical and mechanical components. The special formula with high-purity solvents removes oxide/sulphide layers, combustion residues and resinous or sooty soiling.

WEICON Electro Contact Cleaner reduces voltage loss and increases electric conductivity. Contamination that can cause tracking current is removed. It can be used on electro-technical or mechanical components such as electrical machines, measuring instruments, tools, balances, switches and sensors or electrical connections, contacts, relays and switchboards.



Technical Data

Colour	clear
Odour	almost odourless
Temperature resistance	---
Shelf life min.	24 months
Special features	high pure solvent mixture
Suitable for use with	WSD 400

5 l ✓
15212005

10 l ✓
15212010

30 l ✓
15212030

Parts and Assembly Cleaner

Specially developed cleaner with a high flash point (> +60°C/+140°F of the agent)

WEICON Parts and Assembly Cleaner is a specially developed cleaner with a high flash point (> +60°C/+140°F of the active ingredient) and a long working time for the removal of coarse, oily, resinified and greasy contamination.

Due to its high flashpoint, WEICON Parts and Assembly Cleaner conforms to the former VbF classification AIII (VbF = Regulation concerning flammable liquids) and complies with the recommendations of the professional associations for safety at work.

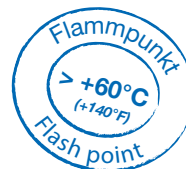
It quickly and thoroughly cleans all kinds of assembly parts, aggregates, construction parts and tools. It removes oils, greases, dirt, etc., from all metal parts and cleans brakes, clutches, engine parts, etc. in the automotive sector.



5 l ✓
15211005

10 l ✓
15211010

30 l ✓
15211030



Technical Data

Colour	clear
Odour	solvent
Temperature resistance	---
Shelf life min.	24 months
Special features	high flash point (> +60°C/+140°F)
Suitable for use with	WSD 400 and WPS 1500

Technical Data

Colour	pink
Odour	solvent
Temperature resistance	---
Shelf life min.	12 months
Special features	powerful
Suitable for use with	---



Sealant and Adhesive Remover*

Removes residues of cured sealants and adhesives



5 l ✓
15213005

10 l ✓
15213010

30 l ✓
15213030

WEICON Sealant and Adhesive Remover quickly and easily removes residues of cured sealants and adhesives as well as lacquers and paints, even from vertical surfaces.

Sealant and Adhesive Remover can be used on metal, wood, glass, ceramics, polyethylene and polypropylene. It should not be used on sensitive plastics such as PVC, synthetics, linoleum, etc.

*



Not to spray with WSD 400 and WPS 1500. Just for brushing and / or application.

Technical Liquids

Cleaner and Degreaser

Workshop Cleaner

Free of solvents and phosphate
bio-degradable

Technical Data

Colour	blue
Odour	almost odourless
Temperature resistance	+5 to +90°C (+41°C to +194°F)
Shelf life min.	24 months
Special features	solvent-free, biodegradable
Suitable for use with	WPS 1500



500 ml ✓
15205500

5 l ✓
15205005

10 l ✓
15205010

30 l ✓
15205030

Workshop Cleaner cleans and degreases all metals, plastics, types of rubber, glass, ceramics and wood. It removes grease, oil, resin, rust, wax, nicotine, insect dirt, bitumen and tar specks.

Workshop Cleaner is free of solvent, emulsifier and phosphate compatible with oil separators (ÖNORM B 5105) and, in accordance with EC-guidelines, bio-degradable. It is highly concentrated and can be diluted to the proportion 1:40 (max.).

Workshop Cleaner contains selected foamless tensides and, in addition to manual cleaning, can be used in highpressure cleaners, part washing machines and spray apparatuses (e.g. Pump Dispenser WPS 1500). Special ingredients provide temporary corrosion protection.

	Recommended application concentration				
	undiluted	1:10	1:20	1:30	1:40

	undiluted	1:10	1:20	1:30	1:40
Aluminium parts					•
Chromium, stainless steel and plastic				•	
Diesel residue	•				
Grease, soot, bitumen and tar splashes	•				
Hard floors		•			
Industrial floors, forklift trucks				•	
Insect dirt		•			
Inspection pits		•			
Lorries (also tarred canvases)		•			
Machine tools				•	
Machines, engines, oil/oil residues		•			
Repair parts					•
Steel degreasing			•		
Workshop equipment				•	



Stainless Steel Care Fluid

Antistatic effect

Stainless Steel Care was specially formulated for the cleaning, protection and care of matt and polished stainless steel surfaces both indoors and outdoors and has an antistatic effect.

WEICON Stainless Steel Care removes and prevents fingerprints, removes lubricating films e.g. from fume hoods, cleans even large surfaces without leaving streaks, and provides a long-lasting protective film which repels water and prevents new dirt from clinging. The product can be used in many applications.



5 l ✓
15590005

10 l ✓
15590010

30 l ✓
15590030

Technical Data

Colour	clear
Odour	solvent
Temperature resistance	-20 to +130°C (-4°F to +266°F)
Shelf life min.	24 months
Special features	antistatic effect, indoors and outdoors
Suitable for use with	WSD 400 and WPS 1500



Technical Liquids

Protection and Care

Non-food Compounds Registration Programme
Category Code: A7, C1



Metal-Fluid

Universal use, fast and reliable



WEICON Metal-Fluid is a care and cleaning product for indoor matt and polished surfaces and has an NSF approval.

Metal-Fluid protects, cleans and cares for both metal surfaces and ceramics, wood, glass and plastics. It does not dissolve etched and printed markings or plastic surfaces and rubber seals.

100 ml ✓
15580100

500 ml ✓
15580500

5 l ✓
15580005

10 l ✓
15580010

30 l ✓
15580030

Technical Data

Colour	milky
Odour	almost odourless
Temperature resistance	-10 to +150°C (+14°C to +302°F)
Shelf life min.	24 months
Special features	antistatic effect, indoors and outdoors
Suitable for use with	Pump dispenser, WSD 400 and WPS 1500



WEICON Pump Dispenser
15842001

For approx. 500 ml solvent and mineral oil-free WEICON Technical Liquids.

WEICON Pump Dispenser „Special“
15843001

For approx. 500 ml WEICON Cleaner S, Brake Cleaner and Rust Loosener.



Rust Loosener

6-fold function

WEICON Rust Loosener's six-fold function makes it indispensable for repairs, maintenance and servicing.

Thanks to its excellent creeping capacity, WEICON Rust Loosener reaches even the smallest cavities.

WEICON Rust Loosener loosens rusted and stiff parts, screws, bolts, joints and hinges, permanently protects against corrosion and oxidation, durably lubricates sliding surfaces, cleans and cares for metallic surfaces and mechanical parts and is temperature resistant from -20°C to +150°C (-4 to +302°F).



5 l ✓
15150005

10 l ✓
15150010

30 l ✓
15150030

Technical Data

Colour	beige
Odour	petroleum
Temperature resistance	-20 to +150°C (-4°C to +302°F)
Shelf life min.	24 months
Special features	6-fold function
Suitable for use with	WSD 400 and WPS 1500

Bio Welding Protection

Silicone-free

WEICON Bio-Welding Protection provides temporary corrosion protection. It contains no chlorinated hydrocarbons, other solvents or silicones.

Bio-Welding Protection is based on hazel nut and sunflower extracts and is biodegradable in accordance with EC Directives.

WEICON Bio-Welding Protection prevents the adhesion of weld spatter to gas nozzles and work-piece surfaces without affecting the quality of the weld seam.



5 l ✓
15050005

10 l ✓
15050010

30 l ✓
15050030

Technical Data

Colour	milky
Odour	almost odourless
Temperature resistance	+5 to +90°C (+41°C to +194°F)
Shelf life min.	24 months
Special features	non-flammable, silicone-free
Suitable for use with	WSD 400 and WPS 1500

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Technical Liquids

Solvents and Release Agents

Mould Release Agent

Silicone-free sliding and release agent

The high-grade combination of active ingredients, consisting of pure natural products, has a high sliding effect which prevents its adhesion to plastics, moulds, metals and tools.

WEICON Mould Release Agent can be used in plastic processing and for spraying, pressing, and vacuum deforming.



Technical Data

Colour	clear
Odour	solvent
Temperature resistance	-20 to +130°C (-4°C to +266°F)
Shelf life min.	24 months
Special features	silicone-free
Suitable for use with	Pump dispenser, WSD 400 and WPS 1500

5 l ✓
15450005

10 l ✓
15450010

30 l ✓
15450030



Label Remover

Simple and fast

WEICON Label Remover quickly and easily removes paper labels and residues of acrylate and caoutchouc-based pressure-sensitive adhesives.

Label Remover is suitable for many surfaces such as glass, metal, wood, foil and plastic.

WEICON Label Remover easily and safely removes adhesive labels, price tags (e.g. incorrect labels), address and product stickers, identification labels, and label residues. It also removes adhesive residues from foil labels such as vignettes on car windshields.



Technical Data

Colour	clear
Odour	Citrus
Temperature resistance	---
Shelf life min.	24 months
Special features	removes paper labels and foil labels
Suitable for use with	WSD 400 and WPS 1500

5 l ✓
15206005

10 l ✓
15206010

30 l ✓
15206030



W 44 T®

Multifunctional oil with multiple effects

W 44 T® is a multifunctional product which, thanks to its special formula and outstanding creeping capacity, combines corrosion protection, water displacement, lubrication, conservation and cleaning in a single product.

W 44 T® loosens seized threads, bolts, fittings and valves, penetrates and dissolves rust, dispels moisture from electrical contacts, prevents tracking currents and makes it easier to start wet motors.

It eliminates squeaky and creaky noises on hinges, guides, bearings and all types of joints and couplings. It cleans soiled metal surfaces and leaves a long-lasting razor-thin film which doesn't smear or stick and does not attract dust. It protects and preserves all types of tools, machines, and electrical and mechanical precision devices and keeps them functional.

WEICON W 44 T® knows almost no limitations in workshop, automotive, shipping, electrical, agricultural, household and hobby applications.



5 l ✓
15251005

10 l ✓
15251010

30 l ✓
15251030

Technical Data

Colour	yellowish
Odour	vanilla
Temperature resistance	-50 to +210°C (-58°C to +410°F)
Shelf life min.	24 months
Special features	multifunctional oil with multiple effects
Suitable for use with	Pump dispenser, WSD 400 and WPS 1500



Technical Liquids

Lubricating and Multifunctional Oils

AT-44

With PTFE super power, silicone-free

Thanks to its special formula and very low friction coefficient, WEICON AT-44 combines corrosion protection, cleaning, water displacement, lubrication and conservation in a single product.

WEICON AT-44 loosens seized threads, bolts, fittings and valves, dispels moisture from electrical cables, prevents tracking currents and makes it easier to start wet motors. It eliminates squeaky and creaky noises on hinges, guides, bearings and all types of joints and couplings.

It cleans soiled surfaces and leaves a razor-thin film which doesn't smear or stick and does not attract dust. It protects and preserves all types of tools, machines, and electrical and mechanical precision devices and keeps them functional.

AT-44 knows almost no limitations in workshop, automotive, shipping, electrical, agricultural, household and hobby applications.

Technical Data

Colour	yellowish
Odour	vanilla
Temperature resistance	-50 to +210°C (-58°C to +410°F)
Shelf life min.	24 months
Special features	high-performance lubricating oil - with PTFE
Suitable for use with	WSD 400 and WPS 1500



5 l ✓
15250005

10 l ✓
15250010

30 l ✓
15250030



Bio-Fluid*

High-purity mineral oil

WEICON Bio-Fluid is a medically pure white oil containing no resins or acids which was specially developed for lubrication and care. It is water-clear, free of solvents, odourless and tasteless, and water-rejecting. It has excellent creeping properties and an NSF approval.

It reduces friction and wear, suppresses squeaky noises, protects against corrosion and removes dirt and rust.

Bio-Fluid can be used for the lubrication, protection and care of precision mechanisms, as a spray oil for production and filling plants, and as a lubricant for filling and packaging systems. It can be used wherever occasional, technically unavoidable contact with food or its packaging can occur.



5 l ✓
15600005

10 l ✓
15600010

30 l ✓
15600030



Clearance certificate for the application in the food industry, according to the USDA H1

Technical Data

Colour	clear
Odour	almost odourless
Temperature resistance	-25 to +120°C (-13°C to +248°F)
Shelf life min.	24 months
Special features	meets requirements of DAB 10, USDA H1, FDA regulations, FDA positive!

WEICON Bio-Fluid was developed for applications in the food, beverage, pharmaceutical and cosmetic industries.

*



Not to spray with WSD 400 and WPS 1500. Just for brushing and / or application.



Technical Liquids

Lubricating and Multifunctional Oils

Bio-Cut

Cutting oil

Technical Data

Colour	clear
Odour	almost odourless
Temperature resistance	to +200°C (+392°F)
Shelf life min.	24 months
Special features	mineral oil-free, easily biodegradable
Suitable for use with	WSD 400

250 ml ✓
15750002

5 l ✓
15750005

10 l ✓
15750010

30 l ✓
15750030



Bio-Cut contains no mineral oil, has water pollutant class 1 as a self-classification according to VwVwS (Verwaltungsvorschrift wassergefährdende Stoffe = German Administrative Regulation Regarding Water Pollutants), and is easily biodegradable.

Thanks to its particularly high lubricating effect, WEICON Bio-Cut enables high cutting speeds, long tool lives and thus also high tool cutting performance.

WEICON Bio-Cut can be used for drilling, turning, milling, grinding, sawing, punching and thread-cutting in all industrial applications.

Silicone, Liquid

Sliding and release agent

Technical Data

Colour	clear
Odour	solvent
Temperature resistance	-50 to +250°C (-58°C to +482°F)
Shelf life min.	24 months
Special features	silicone oil
Suitable for use with	WSD 400 and WPS 1500

5 l ✓
15350005

10 l ✓
15350010

30 l ✓
15350030



Silicone is an ideal sliding and release agent for efficient production and maintenance. It also serves as a protection and care product for plastic, rubber as well as metal and it is temperature resistant up to +250°C (+482°F).

WEICON Silicone can be used in many industrial applications.



Leak Detector

Non-flammable, non-corrosive, does not cause skin irritation, DIN-DVGW-tested

The agent is used for the fast, convenient and reliable location of leaks (cracks or porous spots) in pressurized pipes.

WEICON Leak Detection does not form any hazardous compounds with carbon dioxide (CO₂), propane, butane, acetylene, oxygen, city or natural gases.

WEICON Leak Detection can be used wherever compressed air, natural or liquid gas is processed, and wherever leaky points can occur on fittings, threaded joints, and connections. It greatly contributes to the safety of pneumatic brakes and gas lines.



5 l ✓
15400005

10 l ✓
15400010

30 l ✓
15400030

Technical Data

Colour	milky
Odour	almost odourless
Temperature resistance	up to +50°C (+122°F)
Shelf life min.	24 months
Special features	approved for gas piping by German DVGW, suitable for oxygen and CO ₂
Suitable for use with	WSD 400 and WPS 1500

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Technical Liquids

Pump-Dispenser WPS 1500
with EPDM-seals

15841500

Refillable plastic sprayer
with special seals for
approx. 1,300 ml Technical
Liquid.

Pump-Dispenser WPS 1500
with VITON-seals

15841500-V

Refillable plastic sprayer with
VITON seal set especially for
WEICON Rust Loosener,
WEICON W44T and WEICON AT44



Extension piece 30cm
with nozzle

15841501

WSD 400 Pressurized-Air Spray Can

WSD 400 is a refillable spray for the application of most WEICON Technical Liquids.

The can is fillable with compressed air via an adapter (accessories) from the compressed-air ductwork system (optimum working pressure 5-10 bar).

The following accessories for WSD 400 are available:

- Adapter for filling from every compressed air system
- Valve set with four different valves and Ball pump with intake pipe



Pressurized-Air Spray Can WSD 400
15811400

Spray-valve set of 4 pieces
15811002

Adapter
15810001



	WSD 400	WPS 1500
Container volume:	600 ml	1500 ml
Max. filling amount:	400 ml	1300 ml
Working pressure:	10 bar	4 bar
Explosion limit:	80 bar	---
Deformation pressure:	65 bar	---
Material:	Container and spray nozzle made of aluminium	Container made of non-breakable polyethylene; spray nozzle and devices made of polypropylene, fibre optic strengthened polyamide and stainless steel



Technical Data

	Brushable Liquid Zinc Paint	Brushable Liquid Zinc Coating	Aluminium Paint
Colour shade / Level of brilliance:	zinc-grey / matt	galvanized / metallic shine	aluminium / metallic shine
Binding agents:	epoxy resin ester	alkyd resin	alkyd combination
Pigment:	zinc pigments (D50 4 µm)	zinc and aluminium pigments (D50 25 µm)	aluminium pigments (D50 16 µm)
Pigment purity:	approx. 98.5 %	approx. Al 99.5% and Zn 99.9%	approx. 99.5 %
Specific weight:	1.96 g/cm³	1.25 g/cm³	1.00 g/cm³
Percentage of metal in the dry film:	approx. 60.5 %	approx. 58.5 %	approx. 32.0 %
Viscosity* (DIN EN ISO 2431) / Consistency:	approx. 70 s 4 mm / stretchable	approx. 70 s 4 mm / stretchable	approx. 120 s 4 mm / stretchable
Processing temperature:	+18°C to +30°C (+64,4°F to +86°F)		
Consumption:	approx. 120 ml/m²		approx. 150 ml/m²
Spray consistency:	10 - 20 % universal thinning		
Drying time (dust dry):	30 minutes	60 minutes	60 minutes
Hardened*:	12 hours		
Recoatible / can be reprimed*:	12 hours		
Final hardness*:	48 hours		
Minimum layer thickness:	50 µm	30 µm	20 µm
Cross-cut test (DIN 53151):	characteristic value GT 0 to GT 1		
Salt spray test (DIN 50021, DIN EN ISO 9227)	400 hours	200 hours	100 hours
Mandrel bending test, mandrel 5 mm (DIN EN ISO 1519):	no formation of hairline cracks		
Temperature resistance after reaching the final hardness:	approx. +400°C (+752°F)	approx. +240°C (+464°F)	approx. +300°C (+572°F) (from +100°C (+212°F), slight discolourations are possible)
Primer:	not necessary		WEICON Brushable Zinc Paint / Brushable Zinc Coating
Shelf life**:	12 - 18 months		
Available in:	375 ml and 750 ml size can		
Classification in accordance with Directive 2004/42 EC category 'A/i' single component special paints:	< 500 g/l VOC		

* +20°C (+68°F) can / surface temperature and 50% relative humidity.

** With a constant room temperature of +20°C (+68°F) and storage in a dry place. This applies to closed original containers which are not exposed to direct and/or indirect sunlight.

Technical Liquids

Technical Data

	Colour	Odour	Temperature resistance	Shelf life min. (Months)*	Special features
AT-44	yellowish	vanilla	-50°C (-58°F) to +210°C (+410°F)	24	high-performance lubricating oil - with PTFE
Bio-Cut	clear	almost odourless	to +200°C (+392°F)	24	mineral oil-free, easily biodegradable
Bio-Fluid	clear	almost odourless	-25°C (-13°F) to +120°C (+248°F)	24	meets requirements of DAB 10, USDA H1, FDA regulations, FDA positive list
Bio-Welding Protection	milky	almost odourless	+5°C (+41°F) to +90°C (+194°F)	24	non-flammable, silicone-free
Brake Cleaner	clear	citrus	---	24	evaporates without leaving residues
Citrus Cleaner	clear	citrus	---	24	for sensitive surfaces
Cleaner S	clear	orange	---	24	evaporates without leaving residues
Corro-Protection	clear	solvent	-20°C (-4°F) to +80°C (+176°F)	24	RWTÜV-tested, wax-based
Label Remover	clear	citrus	---	24	removes paper and foil labels
Leak Detector	milky	almost odourless	0°C (+32°F) to +50°C (+122°F)	24	approved for gas piping by German DVGW, suitable for oxygen and CO2
Metal-Fluid	milky	almost odourless	-10°C (+14°F) to +150°C (+302°F)	24	antistatic effect, especially for indoor use
Mould Cleaner	clear	citrus	---	24	evaporates without leaving residues
Mould Release Agent	clear	solvent	-20°C (-4°F) to +130°C (+266°F)	24	silicone-free
Parts and Assembly Cleaner	clear	solvent	---	24	high flash point (>+60°C/+140°F)
Plastic Cleaner	clear	citrus	---	24	for sensitive plastic surfaces
Rust Loosener	beige	petroleum	-20°C (-4°F) to +150°C (+302°F)	24	6-fold function
Sealant and Adhesive Remover	pink	solvent	---	12	powerful
Silicone	clear	solvent	-50°C (-58°F) to +250°C (+482°F)	24	silicone oil
Stainless Steel Care Fluid	clear	solvent	-20°C (-4°F) to +130°C (+266°F)	24	antistatic effect, especially for outdoor use
Surface Cleaner	clear	citrus	---	24	evaporates without leaving residues
W 44 T®	yellowish	vanilla	-50°C (-58°F) to +210°C (+410°F)	24	multi-function oil - with multiple effects
Workshop Cleaner	blue	almost odourless	+5°C (+41°F) to +90°C (+194°F)	24	solvent-free, oil removal accommodating, biodegradable

* With a constant room temperature of +20°C (+68°F) and stored in a dry area. This is valid for closed original packagings which are subjected to neither direct, nor indirect, sunlight.

Assembly Pastes

Product	Page
Anti-Seize	270
Anti-Seize „High-Tech“	271
Copper Paste	273



Anti-Seize

Assembly Pastes



Anti-Seize

All kinds of influencing factors, such as moisture and friction, lead to damage due to corrosion, seizure, and wear on machines and installations.

Extensive repair and maintenance work at considerable cost are the result.

Especially under critical conditions of application, such as:

- High operation temperatures
- High pressure loads
- Outdoor weather conditions
- Aggressive chemicals
- The influence of other media

WEICON Anti-Seize assembly pastes are especially developed for these requirements. They are used as protecting and separating agents, as well as lubricants, for highly stressed parts, especially at high temperatures.



Anti-Seize

Assembly Pastes

Optimally balanced solids contents as well as selected additives permit a wide range of applications, especially in this area.

Conventional separating agents or lubricants such as mineral oils and greases often cannot provide sufficient lubrication and protection in difficult industrial environments.

The basic components in WEICON Anti-Seize are made of synthetic oils, which have a considerably lower sulphur content than products containing mineral oil. A residue-free vaporisation of the oil at temperatures between $+200^{\circ}\text{C}$ ($+392^{\circ}\text{F}$) and $+250^{\circ}\text{C}$ ($+482^{\circ}\text{F}$) is thus possible. This is particularly important in the case of stainless steels (e.g. for VA material) to prevent stress-corrosion cracking.

The safe protection of work pieces and structures made of steel and other metals is thus absolutely necessary for the rational and economic operation of technical installations.



Due to the special formulation and the very fine grinding of the solids contained in WEICON Anti-Seize, irregularities in the surface being protected are completely filled – even to a layer thickness of only $12\ \mu\text{m}$. Only a perfectly sealed surface guarantees a reliable protection against corrosion. An additional sealing effect thus results for special applications, such as flange connections.

WEICON Anti-Seize provides protection against the following:

- Corrosion – seizure - wear
- Stick-slip phenomena
- Oxidation and fretting corrosion
- Electrolytic reactions (“cold welding”)

WEICON Anti-Seize is free of sulphurous additives and halogens, well-adherent and abrasion-proof, and resistant against hot, cold, and salt water. The extremely low friction coefficient also permits easy disassembly from machines and installations.

In addition, WEICON Anti-Seize assembly pastes are excellent lubricants for statically high-stressed parts and for slowly rotating installations, as long as corresponding relubrication intervals are observed.

With its dual function as a lubricant and corrosion protection agent, WEICON Anti-Seize thus becomes a rationalisation factor, both in terms of saving time and reducing costs.

WEICON Anti-Seize is used sparingly. At a layer thickness of $0,01\ \text{mm}$, $1\ \text{kg}$ suffices to cover a surface area of approximately $45\ \text{m}^2$.

Three product variants are available for various areas of application.

Anti-Seize
Anti-Seize „High Tech“
Copper Paste

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Anti-Seize

Reliable protection against corrosion, seizing and cold welding

WEICON Anti-Seize is used as a protecting, separating and lubricating agent for highly stressed parts. Ideally compatible solid contents and selected additives enable a wide range of usage.

Anti-Seize protects against corrosion, seizure and wear, stick-slip phenomena, oxidation, fretting corrosion and electrolytic reactions („cold welding“).



Technical Data

Basic oil	Synthetic oil mixture
Colour	anthracite
OFW device coefficient of friction	0,13
Coefficient of friction total	0,14 μ
Coefficient of friction thread	0,13 μ
Coefficient of friction on upside down	0,15 μ
VKA-Test (DIN 51350) goods load	4200 N
VKA-Test (DIN 51350) welding load	4400 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,5 mm
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Sulphur content (DIN 51400)	< 0,1%
Water resistance (DIN 51807)	0 - 90
Temperature resistance	-180 to +1.200°C (-292 to +2.192°F)
Pressure load	230 N/mm ² (33.400 psi)
Density at +20°C (+68°F) (DIN 51757)	1,16 g/cm ³
Salt spray test (DIN 50017)	> 170 h
Thermal conductivity	0,3 W/m·K
Dielectric strength	0,47 kV/mm
Specific resistance	1,2 x 10 ¹⁵ Ohm/cm

10 g ✓ 26000001 Syringe	30 g ✓ 26000003 Pen	120 g ✓ 26000012 Brush top can	200 ml ✓ 26000200 Press pack
400 g ✓ 26000040 Cartridge	450 g ✓ 26000045 Can	500 g ✓ 26000050 Brush top can	1,0 kg ✓ 26000100 Can
1,8 kg ✓ 26000180 Bucket	5,0 kg ✓ 26000500 Bucket	10,0 kg ✓ 26000910 Bucket	20,0 kg ✓ 26000920 Bucket
100 ml ✓ 27000100 Spray	400 ml ✓ 27000400 Spray		

Assembly Pastes



Clearance certificate for the application in the food industry, according to the USDA H1

Anti-Seize „High-Tech“

Metal-free, NSF approval

Anti Seize „High-Tech“ is high temperature resistant, has excellent separating characteristics, is metal-free, neutral to materials and has an NSF approval.

Anti-Seize „High-Tech“ is particularly suitable when metal-containing pastes can cause electrolytic reactions, when nickel-containing products should or may not be used due to health reasons and when dark metal-containing products should or may not be used for optical reasons.



Technical Data

Basic oil	Medicinal oil
Colour	white
OFW device coefficient of friction	0,10 to 0,13
Coefficient of friction total	0,13 μ
Coefficient of friction thread	0,11 μ
Coefficient of friction on upside down	0,14 μ
VKA-Test (DIN 51350) goods load	3600 N
VKA-Test (DIN 51350) welding load	3800 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,7 mm
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Sulphur content (DIN 51400)	< 0,1%
Water resistance (DIN 51807)	1 - 90
Temperature resistance	-40 to +1.400°C (-40 to +2.552°F)
Pressure load	230 N/mm ² (33.400 psi)
Density at +20°C (+68°F) (DIN 51757)	1,42 g/cm ³
Salt spray test (DIN 50017)	> 170 h
Thermal conductivity	0,7 W/m·K
Dielectric strength	0,40 kV/mm
Specific resistance	1,0 x 10 ¹⁵ Ohm/cm

30 g ✓ 26100003 Pen	120 g ✓ 26100012 Brush top can	400 g ✓ 26100040 Cartridge	450 g ✓ 26100045 Can
500 g ✓ 26100050 Brush top can	1,0 kg ✓ 26100100 Can	1,8 kg ✓ 26100180 Bucket	5,0 kg ✓ 26100500 Bucket
10,0 kg ✓ 26100910 Bucket	20,0 kg ✓ 26100920 Bucket	400 ml ✓ 27050400 Spray	





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

WEICON Anti-Seize products and their behaviour vis-à-vis sealing materials (elastomers)

	Anti-Seize	Anti-Seize "High-Tech"
ACM - Acrylate rubber	++	++
CR - Chloroprene rubber	+	+
CSM - Chlorosulfonated PE rubber	++	++
EPDM - Ethylene propylene diene rubber	--	--
FKM - Fluorocautchoc	++	++
NBR - Nitrile butadiene rubber	++	++
NR - Natural rubber	--	--
SBR - Styrene butadiene rubber	--	--
SQM/MVQ - Silicone rubber	++	++

++ resistant + resistant to a limited extent 0 not tested, preliminary trials or resistance tests are recommended -- not resistant

WEICON Anti-Seize products and their behaviour vis-à-vis sealing materials (elastomers)

	Anti-Seize	Anti-Seize "High-Tech"
ABS - ABS copolymeride	++	++
CA - Cellulose acetate	++	++
EPS - Expanded polystyrene	++	++
PA - Polyamide	++	++
PC - Polycarbonate	--	--
PE - Polyethylene	++	++
PE-UHMW - Polyethylene with ultra high molar weight	++	++
PE-LD - Polyethylene with low density	+	+
PET - Polyethyleneterephthalate	++	++
POM - Polyoxymethylene	++	++
PP - Polypropylene	++	++
PPO - Polyphenylene oxide	++	++
PS - Polystyrene	+	+
PTFE - Polytetrafluor ethylene	++	++
PUR - Polyurethane	+	+
PVC - Polyvinylchloride	++	++

++ resistant + resistant to a limited extent 0 not tested, preliminary trials or resistance tests are recommended -- not resistant

The specified resistance levels are based on laboratory tests and literature notices. A guarantee cannot be provided due to the large number of raw materials used on the one hand and the complex chemical and morphological structure of the polymers on the other. In critical application cases, we recommend that you carry out tests and/or consult with our application technology department.



Anti-Seize

Assembly Pastes

Copper Paste

Protecting, separating and lubricating agent for highly stressed parts in high-temperature applications

Technical Data

Consistency assignment (DIN 51818)	NLGI-Class 1
Colour	copper
Thickener	aluminium complex soap
Basic oil	mineral oil
Solid lubricant	copper / graphite
Coefficient of friction (acc. to DIN 946)	0,11 - 0,13
Coefficient of friction total	0,12 μ
Coefficient of friction thread	0,11 μ
Coefficient of friction on upside down	0,13 μ
VKA-Test (DIN 51350) / Welding load	3200 N
Density	1,1 g/cm ³
Kinematic viscosity basic oil (+40°C/+104°F DIN 51562)	180 mm ² /s
Drop point (IP 396)	+180°C (+356°F)
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Temperature resistance	-20 to +1.100°C (-4 to +2.012°F)



Copper Paste is corrosion resistant and strong. It contains no sulphur, lead or nickel.

WEICON Copper Paste is used as an assembly lubricant for all kinds of threaded joints and sliding surfaces. It forms an effective lubricating and separating film which protects the functional surfaces on plug-in tools, wear bushings, screws, and all kinds of threaded, plug-in and bayonet joints against corrosion and seizing.

It can be used to reduce vibration on brake blocks and guides, brake cams and pins, car and truck battery terminals and other electrical connections, wheel bolts and nuts, and on wear bushings at electrical, compressed air and hydraulic hammers. The product can be used in many industrial applications.



30 g ✓ 26200003 Pen	120 g ✓ 26200012 Brush top can	450 g ✓ 26200045 Can
200 ml ✓ 26200200 Press pack	500 g ✓ 26200050 Brush top can	1,0 kg ✓ 26200100 Can
10,0 kg ✓ 26200910 Bucket	400 ml ✓ 27200400 Spray	

Packaging

	10 g Syringe	30 g Pen	120 g Brush top can	200 ml Press pack	400 g Cartridge	450 g Can	500 g Brush top can	1,0 kg Can	1,8 kg Bucket	5,0 kg Bucket	10,0 kg Bucket	20,0 kg Bucket	100 ml Spray	400 ml Spray
Anti-Seize	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anti-Seize "High Tech"	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓
Copper Paste	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	-	-	✓

High Performance Greases

Product	Page
AL-F	278
AL-H	278
AL-M	279
AL-T	280
AL-W	281





Allround Lubricant

Even in the present “High-tech age” problems due to friction and wear are a matter in a lot of industrial sectors. Extensive repairs, longer downtimes, shorter maintenance intervals and lower serviceable lives of plant and equipment are the consequence and cause enormous costs every year.



Therefore it is important to already fulfil the requirements for long-term operational dependability of plant and equipment in the development and construction phase.

During the technical design of movable plant and equipment elements, the lubricant should be viewed as being a calculable functional element and must be included within the terms of reference under the aspects of friction and wear.

A plant operator needs to guarantee a disturbance-free and damage-free operation. The working life of lubricated machine parts depend to a decisive extent upon the selection and the use of the right lubricant.

Modern high performance lubricants, which meet the constantly increasing demands placed on plant and equipment, are thus increasingly gaining in significance.

The main demand placed upon such high performance lubricants is the maximum power transmission with minimal friction and minimal wear.

High Performance Greases

Allround Lubricant



Moreover, additional properties such as water resistance, chemicals' resistance, plastics compatibility or protection against corrosion must be observed.

WEICON Allround Lubricant high performance greases are specially developed to meet these high demands.

They provide sustained protection against friction and wear and thus enable:

- Extremely long re-greasing intervals
- Increased functional dependability and the retention of the value of the machine and production plants.
- Reduction of the maintenance and repair work
- Improved economic efficiency



The following influential factors of tribological systems and their complex interactions must be taken into account when selecting the appropriate WEICON product.

- Design specifications,
e.g. type of material, surface properties,
geometry of the components
- Mechanical stress,
e.g. speed, vibration, pressure
- Environmental influences,
e.g. temperature, moisture, dirt accumulation

Technical product information, a type selection table as well as basic information about "Tribology" can be found on the following pages.

Constant further development and advancement in line with the latest practical and environmental demands additionally guarantee a constantly high quality standard.

AL-F

Allround product, NSF approval

WEICON AL-F can be used to lubricate rolling and sliding bearings, joints, levers, sliding guides, spindles, spline shafts, camshafts, open gears, worm gears and all grease lubrication points, even in the food industry.



Clearance certificate for the application in the food industry, according to the USDA H2



350 g
26550035
Can

400 g
26550040
Cartridge

1,0 kg
26550100
Can

5,0 kg
26550500
Bucket

25,0 kg
26550925
Bucket

Technical Data

Abbreviation (DIN 51502)	KLF 2K -30
Consistency assignment (DIN 51818)	NLGI-class 2
Basis	lithium soap/mineral oil
Colour	white
VKA-Test (DIN 51350) welding load	3600 N
VKA-Test (DIN 51350) goods load	3400 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,8 mm
Speed identifying value	350 000
Worked penetration (DIN ISO 2137)	280 + 15 1/10 mm
Water resistance (DIN 51807)	1 - 90
Temperature resistance	-30 to +120°C (-22 to +248°F)
Drop point (IP 396)	>190°C (+374°F)
Kinematic viscosity (DIN 51 562) +40°C (+104°F)	approx. 100 mm ² /s
Kinematic viscosity (DIN 51 562) +100°C (+212°F)	approx. 9 mm ² /s
EMCOR-corrosion test (DIN 51 802)	0 / 0
Density at +20°C (+68°F) (DIN 51757)	0,90 g/cm ³
Conforms to	NSF-H 2, LMBG Section 31 and Section 5
Shelf life at least	24 months

AL-H

High temperature resistant, NSF approval, odourless and tasteless

WEICON AL-H is suitable for rolling bearings, sliding bearings, joints, spindles, spline shafts and linear guidance systems at all sliding speeds permitted for grease lubrication.

WEICON AL-H is particularly suited for usage in foodstuff technology.



Clearance certificate for the application in the food industry, according to the USDA H1



400 g
26500040
Cartridge

1,0 kg
26500100
Can

5,0 kg
26500500
Bucket

25,0 kg
26500925
Bucket

Technical Data

Abbreviation (DIN 51502)	KPHC 1P -40
Consistency assignment (DIN 51818)	NLGI-class 1
Basis	aluminium complex soap polyalphaolefine
Colour	yellowish-white
VKA-Test (DIN 51350) welding load	1800 N
VKA-Test (DIN 51350) goods load	1700 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,6 mm
Speed identifying value	400 000
Worked penetration (DIN ISO 2137)	310-340 1/10 mm
Water resistance (DIN 51807)	1 - 90
Temperature resistance	-40 to +160°C (-40 to +320°F)
Drop point (IP 396)	>200°C (+392°F)
Kinematic viscosity (DIN 51 562) +40°C (+104°F)	approx. 400 mm ² /s
Kinematic viscosity (DIN 51 562) +100°C (+212°F)	approx. 40 mm ² /s
EMCOR-corrosion test (DIN 51 802)	1 / 1
Density at +20°C (+68°F) (DIN 51757)	0,93 g/cm ³
Conforms to	NSF-H 1, LMBG Section 31 and Section 21
Shelf life at least	24 months

High Performance Greases

Allround Lubricant

AL-M

Strong adhesion, high pressure resistant, with MoS₂

WEICON AL-M reduces friction and wear for a long time and is suited for rolling and slide bearings, joints, levers, sliding guides, spindles, camshafts, spline shafts, springs, open gears, worm gears and at all sliding speeds permitted for grease lubrication.

Technical Data

Abbreviation (DIN 51502)	KF 2 K-20
Consistency assignment (DIN 51818)	NLGI-class 2
Basis	Li/Ca-Soap/MoS ₂ / mineral oil
Colour	black
VKA-Test (DIN 51350) welding load	3200 N
VKA-Test (DIN 51350) goods load	3000 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,5 mm
Speed identifying value	250 000
Worked penetration (DIN ISO 2137)	265-295 1/10 mm
Water resistance (DIN 51807)	1 - 90
Temperature resistance	-20 to +120°C (-4 to +248°F)
Drop point (IP 396)	>170°C (+338°F)
Kinematic viscosity (DIN 51 562) +40°C (+104°F)	approx. 185 mm ² /s
Kinematic viscosity (DIN 51 562) +100°C (+212°F)	approx. 14 mm ² /s
EMCOR-corrosion test (DIN 51 802)	0 / 0
Density at +20°C (+68°F) (DIN 51757)	0,92 g/cm ³
Shelf life at least	24 months



400 g ✓
26400040
Cartridge

1,0 kg ✓
26400100
Can

5,0 kg ✓
26400500
Bucket

25,0 kg ✓
26400925
Bucket



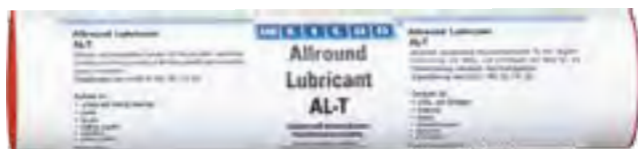


AL-T

Long-term lubrication, high temperature resistant

WEICON AL-T high performance grease is a universally usable high temperature grease for long-term lubrication.

WEICON AL-T is suitable for rolling and sliding bearings, joints, levers, sliding guides, spindles, spline shafts and at all sliding speeds permitted for grease lubrication.



400 g ✓
26600040
Cartridge

1,0 kg ✓
26600100
Can

5,0 kg ✓
26600500
Bucket

25,0 kg ✓
26600925
Bucket

Technical Data

Abbreviation (DIN 51502)	KPL 2 R -20
Consistency assignment (DIN 51818)	NLGI-class 2
Basis	aluminium complex soap / mineral oil
Colour	dark-brown
VKA-Test (DIN 51 350) welding load	2400 N
VKA-Test (DIN 51350) goods load	2200 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	2,0 mm
Speed identifying value	400 000
Worked penetration (DIN ISO 2137)	265-295 1/10 mm
Water resistance (DIN 51807)	0 - 90
Temperature resistance	-25 to +190°C (-13 to +374°F)
Drop point (IP 396)	>210°C (+410°F)
Kinematic viscosity (DIN 51 562) +40°C (+104°F)	approx. 230 mm ² /s
Kinematic viscosity (DIN 51 562) +100°C (+212°F)	approx. 16 mm ² /s
EMCOR-corrosion test (DIN 51 802)	0 / 0
Density at +20°C (+68°F) (DIN 51757)	0,94 g/cm ³
Shelf life at least	24 months



High Performance Greases

Allround Lubricant

AL-W

Special lubricant for underwater applications

AL-W high performance grease is a special lubricant and corrosion protection which can also be used for underwater applications.

WEICON AL-W offers effective protection against aggressive liquids such as sea or wastewater, both in the maritime sector and in wet plants.

WEICON AL-W is suitable for rolling and sliding bearings even in mixed friction operation, for joints, levers, sliding guides, spindles, spline shafts, open gears, worm gears, chains and wire cables and at all sliding speeds permitted for grease lubrication.

Technical Data

Abbreviation (DIN 51502)	KPL 1-2 E -25
Consistency assignment (DIN 51818)	NLGI-class 1-2
Basis	Spec. calcium soap / mineral oil
Colour	beige
VKA-Test (DIN 51350) welding load	3400 N
VKA-Test (DIN 51350) goods load	3200 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,7 mm
Speed identifying value	350 000
Worked penetration (DIN ISO 2137)	285-315 1/10 mm
Water resistance (DIN 51807)	0 - 40
Temperature resistance	-25 to +80°C (-13 to +176°F)
Drop point (IP 396)	>100°C (+212°F)
Kinematic viscosity (DIN 51 562) +40°C (+104°F)	approx. 100 mm ² /s
Kinematic viscosity (DIN 51 562) +100°C (+212°F)	approx. 9 mm ² /s
EMCOR-corrosion test (DIN 51 802)	0 / 0
Density at +20°C (+68°F) (DIN 51757)	0,94 g/cm ³
Conforms to	Federal German Armed Forces TL 9150-0066, NATO specification G-460
Shelf life at least	24 months



400 g ✓
26450040
Cartridge

1,0 kg ✓
26450100
Can

5,0 kg ✓
26450500
Bucket

25,0 kg ✓
26450925
Bucket





Type selection table

	AL-T	AL-M	AL-W	AL-H	AL-F
Rolling bearings	•	•	•	•	•
Sliding bearings	•	•	•	•	•
Chains			•		
Joints	•	•	•	•	•
Levers	•	•	•	•	•
Sliding guides	•	•	•	•	•
Linear guide systems	•			•	
Spindles	•	•	•	•	•
Spline shafts	•	•	•		•
Camshafts		•			•
Springs		•			
Open gears		•	•		•
Worm gears		•	•		•
Cables			•		



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

High Performance Greases

Allround Lubricant

Technical Specifications

		AL-T	AL-M	AL-W	AL-H	AL-F
Abbreviation (DIN 51502):		KPL 2 R -20	KF 2 K -20	KPL 1-2 E -25	KPHC 1P -40	KLF 2K -30
Consistency assignment (DIN 51818):		NLGI-Klasse 2	NLGI-class 2	NLGI-class 1-2	NLGI-class 1	NLGI-class 2
Base:		Aluminium complex soap / mineral oil	Li/Ca soap / MoS ₂ / mineral oil	Spec. calcium soap / mineral oil	Aluminium complex soap / polyalphaolefine	Lithium soap / mineral oil
Colour:		darkbrown	black	beige	yellowish-white	white
VKA Test (DIN 51 350):	Welding load:	2400 N	3200 N	3400 N	1800 N	3600 N
	Goods load:	2200 N	3000 N	3200 N	1700 N	3400 N
	Spherical cap value (1 Min / 1000 N)	2,0 mm	0,5 mm	0,7 mm	0,6 mm	0,8 mm
Speed identifying value ($k_a \cdot n \cdot d_m$):		400 000	250 000	350 000	400 000	350 000
Worked penetration (DIN ISO 2137):		265-295 1/10 mm	265-295 1/10 mm	285-315 1/10 mm	310-340 1/10 mm	280 ± 15 1/10 mm
Water resistance (DIN 51807):		0 - 90	1 - 90	0 - 40	1 - 90	1 - 90
Temperature resistance:		-25°C to +190°C (-13 to +374°F)	-20°C to +120°C (-4 to +248°F)	-25°C to +80°C (-13 to +176°F)	-40°C to +160°C (-40 to +320°F)	-30°C to +120°C (-22 to +248°F)
Drop point (IP 396):		>210°C (+410°F)	>170°C (+338°F)	>100°C (+212°F)	>200°C (+392°F)	>190°C (+374°F)
Kinematic viscosity (DIN 51 562):	+40°C (+104°F)	approx. 230 mm ² /s	approx. 185 mm ² /s	approx. 100 mm ² /s	approx. 400 mm ² /s	approx. 100 mm ² /s
	+100°C (+212°F)	approx. 16 mm ² /s	approx. 14 mm ² /s	approx. 9 mm ² /s	approx. 40 mm ² /s	approx. 9 mm ² /s
Salt spray test with separated protective coats (Federal German Armed Forces Regulations 336 h/35°C, 5% NaCl):		---	---	no corrosion	---	---
EMCOR-corrosion test (DIN 51 802):		0 / 0	0 / 0	0 / 0	1 / 1	0 / 0
Density at +20°C (+68°F) (DIN 51757):		0,94 g/cm ³	0,92 g/cm ³	0,94 g/cm ³	0,93 g/cm ³	0,90 g/cm ³
Conforms to:		. / .	. / .	Federal German Armed Forces TL 9150-0066, NATO specification G-460	NSF-H 1, LMBG Section 31 and Section 21	NSF-H 2, LMBG Section 31 and Section 5
Shelf life at least (months)*:		24	24	24	24	24



Manual for the determination and classification of lubricating greases in accordance with DIN 51 502

Type of lubricating grease:

K, G, OG, M

- Information with respect to the operative range (in the case of synthetic oil additional letter based on type of oil: HC,E,PG,S)

Additional identifying letter: D, E, F, L, M, S, P, V

- Information with respect to the usability

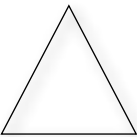

Consistency class (NLGI)

Lower temperature operative range

KF 2 K-20

Additional identifying letter C to U

- Statement of the upper temperature operative range

1	2	3
Lubricating grease	Identifying letter	Symbol
Lubricating greases for rolling and sliding bearings and sliding surfaces in accordance with DIN 51825	K ¹⁾	For lubricating greases based on mineral oil 
Lubricating greases for closed gears in accordance with DIN 51826	G	
Lubricating greases for open gears, gearing (adhesive lubricants without bitumen)	OG	
Lubricating greases for sliding bearings and seals ²⁾	M	
Lubricating greases with a synthetic base are classified like the aforementioned greases based on mineral oil in terms of the basic properties.	Addition to the identifying letters in accordance with Table 1, Material group 3	For lubricating greases with a synthetic oil base 

¹⁾ ISO/TR 3498: 1986 uses the letters XM for the identifying letter K
²⁾ Lower demands than those placed on K lubricating greases

1	2
Consistency identifying number (NLGI classes in accordance with DIN 51818)	Worked penetration determined based on DIN ISO 2137 units ¹⁾
000	445 to 475
00	400 to 430
0	355 to 385
1	310 to 340
2	265 to 295
3	220 to 250
4	175 to 205
5	130 to 160
6	85 to 115 ²⁾

¹⁾ 1 unit = 0.1mm / ²⁾ Stationary penetration

1	2
Additional identifying number	Lower application temperature
-10	-10°C (+14°F)
-20	-20°C (-4°F)
-30	-30°C (-22°F)
-40	-40°C (-40°F)
-50	-50°C (-58°F)
-60	-60°C (-76°F)

Additional identifying letters for synthetic oils

E	Organic ester
FK	Perfluor liquids
HC	Synthetic hydrocarbons
PH	Esters of phosphoric acid
PG	Polyglycol oils
SI	Silicon oils
X	Others

High Performance Greases

Allround Lubricant



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

1	2
Additional identifying letter	Lubricants
D	For lubricating oils with detergent additives, e.g. hydraulic oil HLPD
E	For lubricating oils, which are used mixed with water, e.g. water mixable cooling lubricants, e.g. SE cooling lubricant
F	For lubricants with a solid lubricating additive (such as graphite, molybdenum sulfide), e.g. oil lubricant CLPF
L	For lubricant oils with active substances to increase the protection against corrosion and/or the aging stability, e.g. lubricant oil DIN 51517 – CL 100
M	For water mixable cooling lubricants with mineral oil contents, e.g. SEM cooling lubricant
S	For water mixable cooling lubricants with a synthetic base, e.g. SES cooling lubricant
P	For lubricants with active substances to reduce the friction and wear in the mixed friction area and/or to increase the stability under load, e.g. CLP 100 lubricating oil
V ¹⁾	For lubricants, which are diluted with solvents, e.g. DIN 51513-BB-V lubricating oil

¹⁾ The additional identifying letter V sometimes necessitates labelling in accordance with the Hazardous Substances Act (GefStoffV).

1	2	3
Additional identifying letter	Upper application temperature ¹⁾	Behaviour with water in accordance with DIN 51807 Part 1 Evaluation scale DIN 51807 – ²⁾
C	+60°C (+140°F)	0-40 or 1-40
D		2-40 or 3-40
E	+80°C (+176°F)	0-40 or 1-40
F		2-40 or 3-40
G	+100°C (+212°F)	0-90 or 1-90
H		2-90 or 3-90
K	+120°C (+248°F)	0-90 or 1-90
M		2-90 or 3-90
N	+140°C (+284°F)	By arrangement
P	+160°C (+320°F)	
R	+180°C (+356°F)	
S	+200°C (+392°F)	
T	+220°C (+428°F)	
U	More than +220°C (+428°F)	

¹⁾ The „upper application temperature“ for permanent lubrication is equal to the highest test temperature when testing in accordance with DIN 51806 part 2 (e.g. draft) and/ or DIN 51821 part 2, if the test runs are passed.
²⁾ 0 means no change
 1 means slight change
 2 means moderate change
 3 means considerable change



Miscibility of WEICON Allround Lubricant with other greases

Optimum results with WEICON Allround Lubricant high performance greases can only be achieved following the complete removal of grease residues. However, in practice the complete removal of such grease residues is not always possible. In this case you must check whether the WEICON product envisaged for use is always compatible with the grease that is still present. This test must be carried out on the basis of the main components of the grease (basic oil and thickener). Both main components must be miscible (compatible).

Miscibility of basic oils

Basic oil	Mineral oil (AL-M, AL-W, AL-F, AL-T)	Polyalphaolefine (AL-H)	Ester	Polyglycol	Silicone (Metyhl)	Silicone (Phenyl)	Polyphenyl-ether	Perfluoropolyether oil
Mineral oil (AL-M, AL-W, AL-F, AL-T)		++	++	0	0	+	0	0
Polyalphaolefine (AL-H)	++		++	0	0	0	0	0
Ester	++	++		++	0	++	++	0
Polyglycol	0	0	++		0	0	0	0
Silicone (Metyhl)	0	0	0	0		+	0	0
Silicone (Phenyl)	+	0	++	0	+		++	0
Polyphenyl-ether	0	0	++	0	0	++		0
Perfluoropolyether oil	0	0	0	0	0	0	0	

++ miscible + miscible to a limited extent 0 not miscible

Miscibility of thickeners

Thickening agents	Ca soap (water-free) (AL-W)	Ca complex soap	Li soap (AL-F)	Li complex soap	Li/Ca soap (AL-M)	Na soap	Gels*	Ba complex soap	Al complex soap (AL-H, AL-T)	Polycarbamide
Ca soap (water-free) (AL-W)		++	++	++	++	0	++	++	0	++
Ca complex soap	++		++	++	++	0	++	++	0	++
Li soap (AL-F)	++	++		++	++	0	++	++	0	++
Li complex soap	++	++	++		++	0	0	++	++	0
Li/Ca soap (AL-M)	++	++	++	++		0	++	++	0	++
Na soap	0	0	0	0	0		++	++	0	++
Gels*	++	++	++	0	++	++		++	0	++
Ba complex soap	++	++	++	++	++	++	++		++	++
Al complex soap (AL-H, AL-T)	0	0	0	++	0	0	0	++		++
Polycarbamide	++	++	++	0	++	++	++	++	++	

++ miscible 0 not miscible

High performance greases

Allround Lubricant

WEICON lubricants and their behaviour vis-à-vis sealing materials (elastomers)

	AL-T	AL-M	AL-W	AL-H	AL-F
ACM - Acrylate rubber	++	++	++	++	++
CR - Chloroprene rubber	+	+	+	+	+
CSM - Chlorosulfonated PE rubber	++	++	++	++	++
EPDM - Ethylene propylene diene rubber	--	--	--	--	--
FKM - Fluorocautchoc	++	++	++	++	++
NBR - Nitrile butadiene rubber	++	++	++	++	++
NR - Natural rubber	0	--	--	--	--
SBR - Styrene butadiene rubber	0	--	--	--	--
SQM/MVQ - Silicone rubber	++	++	++	++	++

++ resistant + resistant to a limited extent 0 not tested, preliminary trials or resistance tests are recommended -- not resistant

WEICON lubricants and their behaviour vis-à-vis polymer materials

	AL-T	AL-M	AL-W	AL-H	AL-F
ABS - ABS copolymeride	++	++	++	++	++
CA - Cellulose acetate	++	++	++	++	++
EPS - Expanded polystyrene	++	++	++	++	++
PA - Polyamide	++	++	++	++	++
PC - Polycarbonate	--	--	--	+	--
PE - Polyethylene	++	++	++	++	++
PE-UHMW - Polyethylene with ultra high molar mass	++	++	++	++	++
PE-LD - Polyethylene with low density	+	+	+	++	+
PET - Polyethyleneterephthalate	++	++	++	++	++
POM - Polyoxymethylene	++	++	++	++	++
PP - Polypropylene	++	++	++	++	++
PPO - Polyphenylene oxide	++	++	++	++	++
PS - Polystyrene	+	+	+	++	+
PTFE - Polytetrafluor ethylene	++	++	++	++	++
PUR - Polyurethane	+	+	+	++	+
PVC - Polyvinylchloride	++	++	++	++	++
TPE - Thermoplastic elastomers	0	0	0	0	0

++ resistant + resistant to a limited extent 0 not tested, preliminary trials or resistance tests are recommended -- not resistant

The stated resistance levels are based on laboratory tests and literature notices. A guarantee cannot be provided due to the large number of raw materials used on the one hand and the complex chemical and morphological structure of the polymers on the other. In critical application cases we recommend that you carry out tests and/or consult with our application technology department.



Pre- and Post-treatment of surfaces

Primer M 100	250 ml	Pre-treatment for bonding non absorbent surfaces like metals, plastics, lacquered surfaces (page 65/177)	13550125
Primer K 200	250 ml	Pre-treatment for bonding non absorbent surfaces and lacquered plastic surfaces as well as Elastomeres e.g. EPDM (page 177)	13550225
Primer S 300	250 ml	Pre-treatment of porous and absorbent background (page 65/177)	13550325
Primer P 400	250 ml	Pre-treatment of Polyolefines e.g. TPE, PE, PP (page 177)	13550425
Primer E 500	250 ml	Especially for silicone - for pre-treating non-absorbent surfaces such as aluminium, VA steel, brass, copper, zinc, tinplate and enamel, ceramic and glass as well as plastics such as ABS, PVC hard, PA6.6, GFC etc.	13558025
Smoothing Agent	500 ml	The Smoothing Agent is a transparent mixture of non-ionic surface activators. Applying it makes it possible to easily and cleanly smooth off all WEICON elastic adhesives and sealants such as silicone, MS polymers, polyurethane, etc. prior to skin formation.	13551500
	5 L		13550005
CA Primer for Polyolefines	10 ml	Pre-treatment for bonding Polyolefines in combination with WEICON Contact Cyanoacrylates. (page 141)	12450010
	100 ml		12450100
CA-Activator Spray	150 ml	Accelerates the curing time of WEICON Contact Cyanoacrylate Adhesives. (page 141)	12500150
CA-Activator Spray AC	150 ml	Activator for cyanoacrylate adhesive on the basis of acetone. For joints without "blooming" effect, especially with high-viscosity types and larger adhesive layers. (page 141)	12505150
Surface Cleaner	150 ml	WEICON Surface Cleaner is used for the cleaning and degreasing of surfaces to be joined or sealed with WEICON adhesives and sealants.	11207150
	400 ml		11207400
	5 L		15207005
	10 L		15207010
	30 L		15207030
Activator F Spray	200 ml	To activate passive surfaces, like e.g. aluminium, stainless steel, zinc, chrome, etc. (page 89)	30700200
Activator F Liquid	1 L		30700501



Ancillary Products and Accessories

Mixing and Dosing Systems

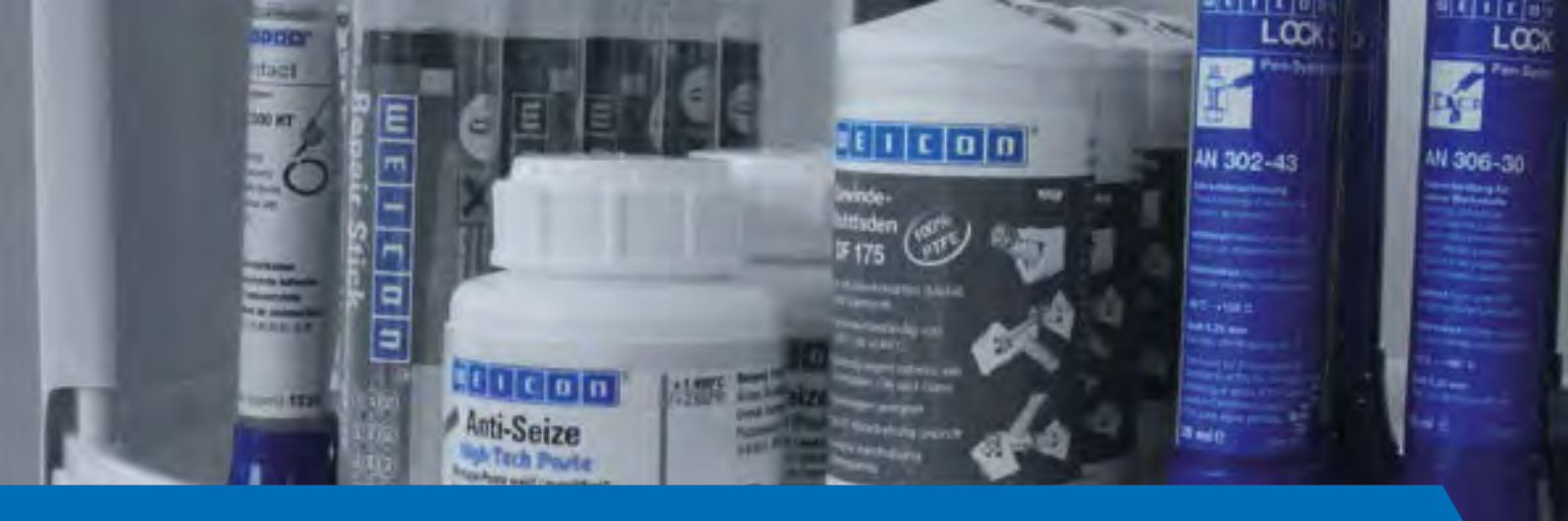
Easy-Mix Hand Dispenser D 50	Suitable for all Easy-Mix types apart from PE-PP. (page 54)	10653050
Hand Dispenser PE-PP	Only suitable for Easy-Mix PE-PP 45. (page 81)	10663038
Special Piston PE-PP	For retooling the Hand Dispenser Easy-Mix D 50 to Easy-Mix PE-PP 45. (page 81)	10663110
Mixing Nozzles PE-PP	Only suitable for Easy-Mix PE-PP 45.	10660002
Quadro Mixing Nozzle	Quadro Mixing Nozzle suitable for RK-7000/RK-7100/RK-7200 50gr cartridge, Easy-Mix S 50, N 50, N 5000, Epoxy Minute Adhesive. (page 54)	10650005
Helix Mixing Nozzle	Helix Mixing Nozzle suitable for Easy-Mix Metal (page 54)	10650006
Dosing Tip Type A	Dosing tip for all WEICON Easy-Mix types. WEICON RK-7000/-7100/-7200, for even finer dosing.	12955175
Glass fibre cloth tape	Improves adhesion and pressure resistance of WEICON epoxy resins at many repair and maintenance jobs.	10850005
Processing Spatula	small	10953001
	large	10953003
Spiral Stirrer stainless steel	Spiral stirrer stainless steel (page 21)	10953010

Dosing Tips extra fine	For exact, economic and point-to-point applications of WEICON Contact adhesives.	12955179
Dosing Tips size 0		12955170
Dosing Tips size 1		12955172



Cartridge Gun "Standard"	For low and medium viscosity adhesives. Suitable for standard cartridges up to 310 ml.	13250001
Cartridge Gun "Special"	Professional quality. Recommended for medium and high viscosity adhesives. Suitable for standard cartridges up to 310 ml. (S. 175)	13250002
Cartridge Cutter	For problem-free and safe cutting of plastic cartridge caps as well as for vertical or bevelled cutting of cartridge nozzles.	13250000
Special Mixing Nozzle	For Flex 310 M 2 K fast curing (page 170)	13309997
V-Joint nozzle	For all one-component standard cartridges	13955031
Primer applicator	For application of WEICON Primer.	13955050

Pump-Dispenser WPS 1500	Refillable pump dispenser for many WEICON liquids. (page 263)	15841500
Pump-Dispenser WPS 1500 with VITON-seals	Refillable plastic sprayer with VITON seal set especially for WEICON Rust Loosener, WEICON W44T and WEICON AT44	15841500-V
Extension piece for WPS 1500	Plastic prolongation 30cm with nozzle 0,8mm (plastic). (page 263)	15841501
Pressurized-Air Spray Can WSD 400	Pressurized-Air Spray Can - refillable. (page 263)	15811400
Spray-Valve set for WSD 400	Valve Set (four different valves and a ball valve with dip tube). (page 263)	15811002
Adapter for WSD 400	Adapter for filling from the compressed-air mains. (page 263)	15810001
Pump Dispenser „Standard“	For all WEICON Technical Liquids which are free of solvents and mineral oil (page 255)	15842001
Pump Dispenser "Special"	For WEICON Cleaner S, Brake Cleaner and Rust Loosener (page 255)	15843001
Adjusting Valve for cans	5 und 10 L	15830001
	30 L	15831001



Point of Sale



Equipment proposal. Supply of the displays is without products.

Product Presentation

Point of Sale



Equipment proposal. Supply of the displays is without products.



Repair Sticks 115 g
(12 pc.)



Cable Stripper S 4-28 Multi
(12 pc.)



Cable Stripper S 4-28
(12 pc.)



Wire Stripper No.5
(12 pc.)



Cartridge 290-310 ml
(12 pc.)



Flex + Bond
(20 pc.)



SDTS 250 ml
(9 pc.)



Cyanoacrylate Adhesive 30 g
(20 pc.)

Cyanoacrylate Adhesive 12 g
(25 pc.)



WEICONLOCK® 50 ml
(24 pc.)

WEICONLOCK® 20 ml
(24 pc.)

Adhesives / Sealants

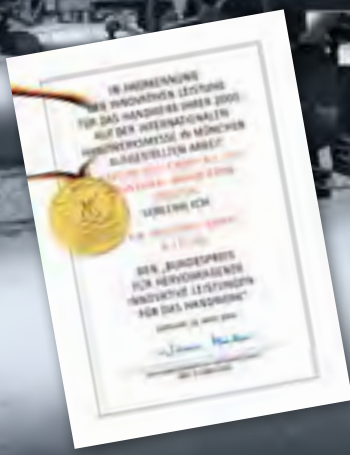
Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other



Certified for quality, technology and safety



RINA

Certificate on the suitability of WEICON Plastic Metals and WEICON Repair Sticks for applications in the marine sector.



ISEGA

Certificates of Conformity for WEICON Flex 310 M® Crystal, Flex 310 PU, Flex 310 M® Classic, Flex 310 M® Stainless Steel, Flex+bond®, Aqua-Flex and Speed-Flex® as adhesives in the foodstuff technology.



NSF

Cleaning and polisher C1/A7: Metal-Fluid

Lubricants H1: Bio Fluid, Silicone Fluid, W 44 T Fluid, Rust Loosener Fluid, Spray-on Grease H1, Anti-Seize High Tech Assembly paste ASW, Allround Lubricant AL-H

Lubricants H2: Allround Lubricant AL-F, Top Lub Fluid, PTFE Fluid

Solvent cleaner K1/K3: Fast Cleaner

Drinking water systems and components NSF/ANSI Standard 61:

WEICONLOCK types AN 301-38, AN 301-43, AN 301-48, AN 301-65, AN 301-70, AN 301-72, Contact VA 110, Repair Stick types copper, steel, plastic, stainless steel



SLV

WEICON Welding Protection Spray has successfully been tested as a non-stick primer against weld spatter.

German Federal Award (year 2000)

For WEICON Duo-Crimp No. 300 as an outstanding innovative achievement.

Germanischer Lloyd

Approval certificates for WEICON Plastic Metals and SF for repairs on vessels.



Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

References/Certificates

WEICON Top Quality Products

Certified for quality, technology and safety

TÜV Nord

Certificates stating the compliance with special quality standards of WEICON Zinc Spray, WEICON Zinc Spray „bright grade“ and WEICON Corro Protection. Safety approvals of the German TÜV stating that WEICON Stripping Tools comply with the federal regulations on technical working equipment.



TZW

German approvals for WEICONLOCK Anaerobic Adhesives/Sealants types AN 302-43 und AN 306-20, certifying the compliance with the regulations for use in drinking water systems according to the recommendations of the German National Health Institute referring to sealants D2.

TZW

Technologiezentrum Wasser
Karlsruhe
Prüfstelle Wasser

DVGW

Test mark certificates for WEICONLOCK Anaerobic Adhesives/Sealants types AN 302-40, AN 302-43, AN 302-45, AN 302-70, AN 305-11, AN 305-42, AN 305-72, AN 305-77 and AN 306-20 for use in gas supply systems. Test mark certificate for WEICON Leak Detection Spray for use in gas supply systems.



BAM

Certificate on the suitability of WEICONLOCK Anaerobic Sealants/ Adhesives AN 302-75, AN 305-77, AN 306-30 and AN 306-48 for oxygen systems.



TÜV

Certificate of the German TÜV stating the suitability of WEICON Silicone HT 300 as sealing agent in exhaust systems of hot cabinets and ovens fuelled with oil or gas.





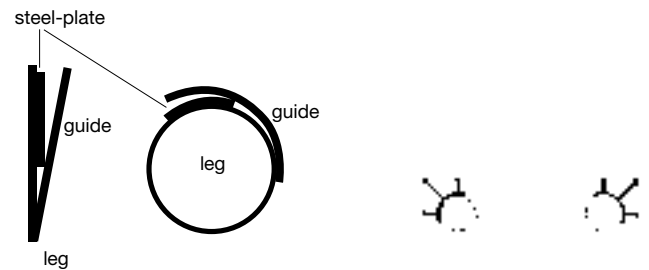
Off-Shore Transport of an Oilrig



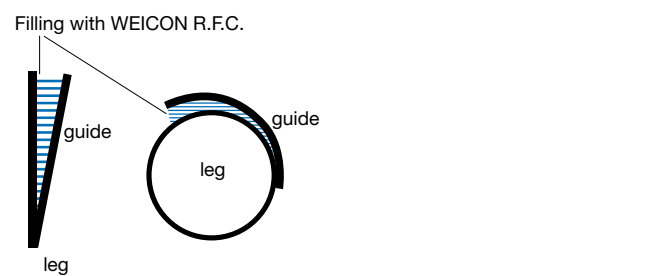
Securing of the transport of an oilrig with WEICON Plastic Metal RFC, a specially developed type for extreme requirements in the off-shore sector.

1,500 – 2,000 kg of WEICON Plastic Metal RFC are used for each transport job.

Previous solution:



Current solution:



Simply contact us for our Stripping Tools Catalogue!



Cable Strippers



Cable Stripper No. S 4 - 28
Art.-No. 50055328



Cable Stripper No. S 4 - 28 Multi
Art.-No. 50057328



Cable Stripper No. S 4 - 28 Voltage
Art.-No. 50056328



Cable Stripper No. 4 - 16
Art.-No. 50050116



Cable Stripper No. 8 - 27
Art.-No. 50050227



Cable Stripper No. 4 - 28 H
Art.-No. 50054328



Cable Stripper No. 4 - 28 G
Art.-No. 50054428



Cable Stripper No. 28 - 35
Art.-No. 50050435



Cable Stripper No. 35 - 50
Art.-No. 50050450

Dismantling Tools



Coax-Stripper No. 2
Art.-No. 52000002



Round Cable Stripper No. 13
Art.-No. 52000013



Combi-Coax No. 3
Art.-No. 52000003



Quadro-Stripper No. 16
Art.-No. 52000016

Wire Strippers



Wire Stripper No. 5
Art.-No. 51000005



Wire Stripper No. 7 Magic
Art.-No. 51000007



Wire Stripper No. 6
Art.-No. 51000006



Wire Stripper No. 7-F
Art.-No. 51001007

Multi-purpose Strippers



Data-Strip No. 30
Art.-No. 52000030



Duo-Stripper No. 200
Art.-No. 51000200



Stripper No. 100
Art.-No. 51000100



Duo-Crimp No. 300
Art.-No. 51000300



Mini-Duo No. 150
Art.-No. 51000150



Multi-Stripper No. 400
Art.-No. 51000400

Tools for solar energy

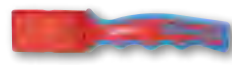


Mini-Solar No. 3
Art.-No. 52002003



Wire Stripper No. 7 Solar
Art.-No. 51002007

Special Tools



Cable Stripper H. D. No. 1000
Art.-No. 51001000



Dismantling Tool No. 25
Art.-No. 52000025



Cable Scissors No. 35
Art.-No. 52000035

weicon-tools.com

KNIFE-STEEL
Quality from Solingen



These premium quality tools are TÜV-tested, carry the GS seal for verified safety, and were developed taking occupational safety and user-friendliness aspects into account. The tools are made of glass fibre-reinforced plastic, and are fully insulated, ergonomically shaped and fit well in the hand.

Advice: Working with WEICON Stripping tools is only permitted with potential free wires and conductors.

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

Stripping Tools

Since 1967 we develop, produce and distribute an extensive range of Wire Stripping Tools. This includes cable knives, wire strippers, dismantling and multi-functional tools. Our tools have been developed for accurate, fast and safe stripping of all common cable types. They carry the GS seal of TÜV Nord and were developed under the aspects of work safety.

The tools are specifically tailored to the needs of professional users, are found in both, crafts and industrial use and are also suitable for domestic use.



Crimping-Set Pro

New

- Wire Stripper No. 7 Magic
- Duo-Crimp No. 300
- Shaker with wire ends

52880002



Starter-Set Pro

New

- Wire Stripper No. 5
- Coax-Stripper No. 2
- Cable Stripper No. S 4-28
- Round Cable Stripper No. 13

52880001



Electrical Installation Set

New



- Electrical Installation Set 1**
- Duo-Crimp No. 300
 - Round Cable Stripper No. 13

52881001



- Electrical Installation Set 2**
- Wire Stripper No. 5
 - Cable Stripper No. S 4-28

52881002



- Electrical Installation Set 3**
- Wire Stripper No. 5
 - Coax-Stripper No. 2

52881003



- Electrical Installation Set 4**
- Wire Stripper No. 5
 - Round Cable Stripper No. 13

52881004

Trade fairs

The international orientation of our company is also indicated through the large number of trade fairs at which we are represented. Visit us at one of the numerous trade fairs within this country and abroad. You can find information on current trade fair dates on www.weicon.com.



T.I.T., Romania



Russian Industry, Russia



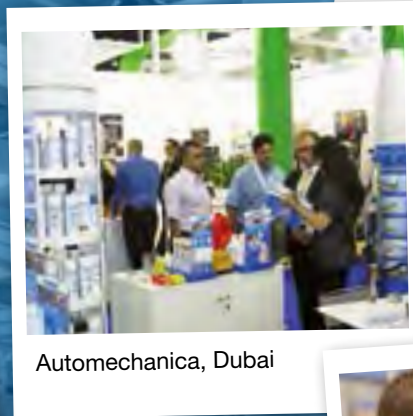
Fabtech, Canada



OSEA, Singapore



TIB, Bucharest



Automechanica, Dubai



Trade fair Hanover



Electra Mining, South Africa



Eisenwarenmesse, Cologne

Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

A) General terms and conditions

§ 1 General

1. Our terms and conditions of sale („Terms and Conditions“) only shall apply. Terms and conditions of the customer that conflict with or deviate from our Terms and Conditions will not be recognised by us unless we have expressly agreed to them in writing. Our Terms and Conditions shall apply even if we should effect delivery without reservation to the customer despite our having knowledge of customer's terms and conditions which conflict with or deviate from our own Terms and Conditions.

2. All agreements made between ourselves and the customer relating to the execution of an order must be made in writing.

3. Where the customer is a business entity within the meaning of § 24 AGBG (German Act Governing General Terms and Conditions of Business), our Terms and Conditions shall also apply in all future business with the customer.

§ 2 Offers and conclusion of contracts

1. Our offers are without obligation on us unless indicated otherwise in the order confirmation. We agree to be bound by specially prepared offers for a period of thirty calendar days from the date of the offer.

2. Where an order is to be seen as an offer within the meaning of § 145 BGB (German Civil Code), we may accept it within 14 calendar days by issuing our order confirmation or by delivering the ordered goods. After expiry of the said period, the offer shall be deemed to have been refused. If we do not issue an order confirmation, our invoice shall be valid as order confirmation.

3. We reserve title and copyright to all illustrations, drawings, calculations and other documents. This also applies to such written documents as are indicated as „confidential“. Documents and such like may be passed on to third parties only with our prior express written consent. If so requested by us, documents must be returned to us, whereby no copies thereof may be retained by the customer.

§ 3 Prices

1. Unless indicated otherwise in the order confirmation, our prices are quoted „ex works“, exclusive of packing; packing and transport will be charged for additionally.

2. Our prices are quoted exclusive of VAT; VAT will be charged at the statutory rate in force on the day of billing and shown in the invoice as a separate item.

3. If the agreed delivery date is more than six months after the date of conclusion of contract or if delivery can only be effected after expiry of such period for reasons for which the customer is responsible, our prices which are valid on the day of delivery or on the day on which the goods are made available shall apply. Should a price increase exceed the rise in the cost of living index, the customer shall have the right to repudiate the contract.

§ 4 Delivery times

1. A delivery time quoted by us shall not start until all technical questions have been clarified.

2. Delivery times or dates shall only be binding on us if agreed in writing.

3. Should the customer fall into delay with acceptance of delivery or fail to fulfil any of his other duties to assist, we shall have the right to claim compensation for any loss as well as any additional expenses incurred by us. In this case, also the risk of accidental loss or accidental deterioration of the goods shall pass to the customer at the time at which he falls into delay with acceptance.

§ 5 Shipment and passing of risk

1. The risk shall pass to the customer on hand-over of the goods or at the time when the customer falls into delay with acceptance.

2. Packing will be as customary in the trade. It will be charged for separately at cost and is non-returnable. The customer shall have a duty to take care of disposal of packing at his own expense.

§ 6 Liability

1. All liability on our part for breach of duties arising from minor negligence shall be barred except where material contractual duties, damage or injury to life, limb or health, guarantees or claims under the Product Liability Act are concerned. The same shall also apply to breaches of duty committed on the part of our legal representatives and vicarious agents.

2. Should operating or maintenance instructions and mixing recommendations not be complied with, changes made to the products, parts be replaced or consumption materials used, all warranty on our part shall lapse unless the customer is able to refute a duly substantiated assertion that a defect would not have arisen but for any of the reasons of the aforesaid kind.

3. Liability for normal wear and tear is barred.

§ 7 Limitation periods

1. Claims on account of a defect in a used item shall lapse one year from delivery of the item.

2. Claims based on any other grounds than a defect in the item itself shall lapse after one year.

3. In deviation from Fig. 1 and Fig. 2, the statutory periods shall apply if liability is claimed on grounds of wilful intent or a given guarantee.

§ 8 Reservation of title

1. We reserve title to the item of sale until receipt of all payments arising from the delivery contract. In the event of any breach of contract by the customer, in particular any delay in payment, we shall have the right to take back the item of sale. Taking-back or garnishment by us of an item of sale which was supplied by us subject to our reservation of title shall always constitute repudiation of the contract. After taking back an item of sale, we shall have the right to dispose of it otherwise, whereby the sale proceeds will - after the deduction of reasonable realisation costs - be credited towards the customer's liabilities.

2. The customer shall have a duty to notify us without delay in writing of any garnishment of items to which we reserve title as well as of any other intervention by third parties and to inform the garnisher of our reservation of title. Should the third party be unable to reimburse us for the court and out-of-court costs of legal action pursuant to § 771 ZPO (Code of Civil Procedure), the customer shall be liable for the loss incurred by us.

§ 9 Payment

1. Except as may be agreed otherwise, our invoices are due and payable with 2 % cash discount within 8 days from date of invoice or without any discount within 30 days from date of invoice.

2. We expressly reserve the right to refuse cheques and bills of exchange. Cheques and bills of exchange will only be accepted on account of payment. All discount or bill expenses shall be borne by the customer and be due and payable immediately.

3. In the event of justified doubts concerning the creditworthiness of the customer, in particular if the customer should fail to honour a cheque or if he should cease payments, we shall have the right to make all outstanding amounts due for payment immediately even if we have accepted cheques. We shall also have the right to demand payment in advance or the provision of security.

4. If the customer should finally and absolutely cease payments and/or if proceedings in bankruptcy or court-supervised or out-of-court composition proceedings are applied for against him, we shall also have the right to repudiate the contract in respect of that part which has not yet been fulfilled.

5. Should the customer default on payment, we shall have the right to claim interest on arrears in accordance with the statutory provisions. If we are able to show having incurred higher loss through default, we shall have the right to claim therefor.

6. The customer shall only have the right of offset if his own counterclaims have been finally and absolutely established at law, are undisputed or have been recognised by us. The customer shall also only have a right to withhold payment insofar as his counterclaim derives from one and the same contractual relationship.

§ 10 Data processing

We shall have the right to store and/or process in accordance with data protection law all data received relating to the customer.

§ 11 Salvation clause

Should any of the provisions of these Terms and Conditions be or become invalid, this shall have no effect on the validity of any other provision or on the validity of the agreement between the customer and ourselves.

B) Special provisions relating to business entities

In relations with business entities, the following provisions shall additionally apply:

§ 1 Warranty

1. Defects in items of delivery including the handbooks and other documents will, in response to corresponding notification by the user, be remedied by the supplier within the statutory period of two years from delivery. Remedy will be done at buyer's option by either cost-free repair or replacement. In the case of replacement, the buyer shall have a duty to return the defective item.

2. If the defect cannot be remedied within a reasonable period of time or if replacement must be deemed for other reasons to have failed, the buyer may, at his option, claim a reduction in price or repudiate the contract. Remedy may only be deemed to have failed if the supplier has been granted sufficient opportunity to effect repair or replacement without the desired effect having been achieved, if repair or replacement is impossible, if repair or replacement is refused or unreasonably delayed by the supplier, if justified doubts regarding the likelihood of success exist or if unreasonableness must be assumed on other grounds.

§ 2 Duty to examine and give notice of defects

In the case of bilateral mercantile transactions, the warranty rights of the customer shall be dependent on his having duly fulfilled his duties to examine and give notice of defects pursuant to §§ 377, 378 HGB (German Commercial Code). Notice of defects must be made in writing.

§ 3 Liability

Liability on our part for unforeseeable loss or damage shall be barred except on grounds of wilful breach of duties, damage or injury to life, limb or health, guarantees or claims under the Product Liability Act.

§ 4 Reservation of title

In addition to the provisions of A) § 8, the following shall also apply:

a) We reserve title to items supplied by us until such time as all of our claims against the customer arising on any legal grounds whatsoever have been fulfilled.

b) In deviation from A) § 8, the taking-back of items of purchase from registered traders shall not constitute repudiation of the contract unless expressly stated by us in writing as doing so. We shall have the right, irrespective of the claim to performance due to us on expiry of a period of time allowed to the customer for the performance of an obligation, to demand surrender of the item of delivery if the customer fails to fulfil his obligation towards us or to do so punctually and/or if the customer acts in an inadmissible manner on items delivered to him subject to reservation of title. If the customer has fulfilled the contract, we shall have a duty to release the items to him.

c) If items have been delivered for a commercial pursuit carried on by the customer, the items may be resold in the normal course of business. In this case, however, the customer already hereby assigns to us, in the amount of the total invoice value (including VAT) of our claim, all claims accruing to him against his customers or third parties from resale of the items of purchase, regardless of whether they have been resold with or without any prior further processing. Where the items are resold on credit, the customer shall reserve title to the items towards his customer. Our customer hereby assigns to us his rights and claims accruing against his customer from such reservation of title.

d) Any processing of items which are subject to our reservation of title („reserved goods“) by the customer shall be deemed done on our behalf but without giving rise to any costs for us. Where reserved goods are processed, combined or mixed with other goods not belonging to us, we shall have co-title to the new item so created in the same proportion as that between the value of our item of delivery (total invoice amount, including VAT) and the value of the other goods at the time of processing, combination or mixing. Where the customer acquires sole ownership to a new item, it is agreed that the customer shall grant us co-title thereto in the same proportion as aforesaid and shall keep the item on our behalf without this giving rise to any costs for us. Where reserved goods are resold together with other goods, whether with or without any prior processing, combination or mixing, the anticipatory assignment agreed in Fig. 3 Letter c shall only apply up to the invoice value of the reserved goods resold together with the other goods.

e) Where reserved goods are incorporated as an integral part into the real property of the customer, the customer hereby already assigns to us the claims arising from sale of the real property or the rights thereto, together with all ancillary rights.

f) We undertake, on the request of the customer, to release any securities to which we are entitled insofar as the realisable value of such securities exceeds the value of our claims by more than 10 %, whereby the choice of securities to be released shall lie with us.

§ 5 Passing of risk

1. Unless indicated otherwise in the order confirmation, it is agreed that delivery will be effected „ex works“.

2. The risk shall pass to the customer as soon as the consignment has been delivered into the custody of the person effecting transport or has left our works for the purpose of shipment. If, on the request of the customer, shipment is delayed or is not effected, the risk shall pass to the customer on our notification of readiness for shipment.

3. Deliveries will, on the request of the customer, be insured in his name and for his account.

§ 6 Applicable law, legal venue, place of performance

1. These Terms and Conditions and the entire business relationship between the customer and ourselves shall be governed by the law of the Federal Republic of Germany.

2. The legal venue shall be the courts having jurisdiction for our place of business in Münster. We shall, however, also have the right to bring legal action against the customer at the courts having jurisdiction for his place of domicile.

3. Unless indicated otherwise in the order confirmation, our place of business in Münster shall also be the place of performance

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(Headquarters)

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