

GB

Programme overview



Adhesives / Sealants



Technical
Sprays



Technical
Liquids



Assembly Pastes
and Lubricants



Stripping
Tools

worldwide

Even under extreme conditions!



In|du|strie
GEMEINSAM. ZUKUNFT. LEBEN.



Training of our workforce at the IFAM Institute, Bremen



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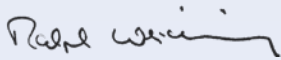
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WEICON® U+P 2014

Hello!

We are pleased that you are interested in WEICON products and solutions. In this programme overview, we are presenting a part of our large assortment.

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.



Sincerely, Ralph Weidling

WEICON...You can rely on us!

For more than 60 years, WEICON has stood for the highest quality – even under the most extreme conditions. Worldwide.

WEICON develops, produces and sells special adhesives and sealants, technical aerosols and high-performance assembly pastes and greases for all areas from production, repair and maintenance to servicing.

The second pillar of the company, which was founded as a tool distributor in 1947, is the development and sale of stripping tools. WEICON is an innovation leader in this market segment.

CEO Ralph Weidling is counting on the solid development of the industrial enterprise – at the Münster site and all over the world. Since 2005, WEICON has a subsidiary in Dubai, U.A.E., since 2008 a site in Kitchener / Ontario, Canada, since 2011 in Istanbul, Turkey and since 2012 in Targu Mures, Romania.

WEICON is a specialist with a wide assortment of more than 300 products. Products that users in about 75 countries trust every day.



Ralph Weidling
Managing Director
WEICON GmbH & Co. KG



About us

Certified for Quality



Training in our laboratory



Quality control



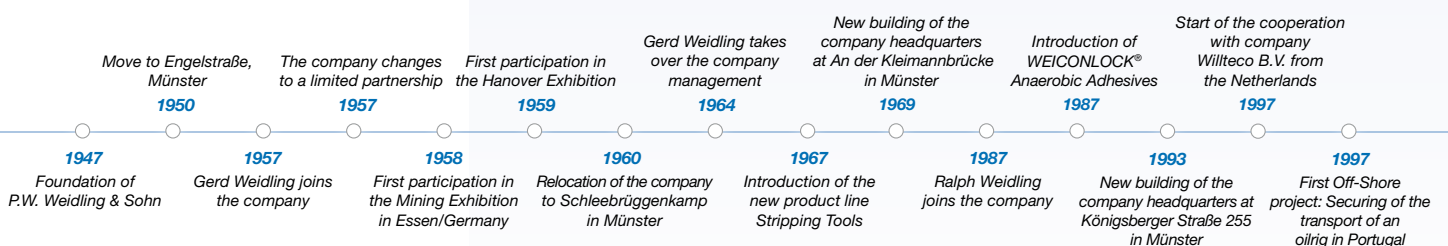
Creative Staff in our Advertising Department

As a medium-sized and 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 and U.A.E.
- 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





About us

and Service

for more than 60 years



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)
- Certified training of the staff
- Social and sports sponsorship



International product training at WEICON



Presence at trade fairs – worldwide



Company headquarters in Münster

German Federal Award for WEICON Duo-Crimp No.300 as an outstanding innovative achievement

2000

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

2002

Foundation of WEICON Middle East LLC in Dubai, U.A.E.

2005

Patent for the WEICONLOCK® pen system

2006

Foundation of WEICON Inc. in Kitchener, Canada

2008

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

2010

Set-up of the WEICON Online-Shop

2011

WEICON participates in 45 exhibitions all over the world

2012

Ralph Weidling takes over the company management

2000

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

2004

Innovation Award of the German Industry for WEICON Plastic Metal RFC

2005

Extension of the headquarters at Königsberger Straße in Münster

2006

WEICON becomes member of the German Adhesives Association (IVK)

2009

Foundation of WEICON Kimya Sanayi in Istanbul, Turkey

2011

Foundation of WEICON Romania in Targu Mures, Romania

2012

Two-component
adhesives

Plastic Metal

The ideal material for repair
and maintenance, tool and
mould making



WEICON Plastic Metal

The ideal product for fast, cost-effective and durable repairs, bondings and coatings of the most different types of material.

WEICON Plastic Metals are two-component epoxy resin compounds which harden practically without shrinkage. After hardening, WEICON Plastic Metals can be machined mechanically and are therefore most suitable for various repairs and applications.

Fillers such as aluminium, steel or minerals determine the technical properties. Types with different viscosities or extraordinary resistance to high temperatures or abrasion are available. All types are extremely resistant to aggressive media.



WEICON A Putty, steel-filled



Especially suitable for the elimination of corrosion damages and pitting on tanks, repairs on pipes and castings, housings and machine parts.

Also for the making of moulds and models, tools and fixtures.

WEICON B Viscous, steel-filled

Making of moulds and models, tools, templates, gauges and fixtures.

Also for filling blowholes and microporosities on castings as well as for general repair works where a castable compound is advantageous.



*Approval Certificate of Germanischer Lloyd

Two-component
adhesives

Plastic Metal

The ideal material for repair
and maintenance, tool and
mould making



WEICON BR

Putty, bronze-filled

For filling blowholes and rebuilding
bronze equipment parts
(e.g. propellers of ships).

WEIDLING C

Liquid, aluminium-filled

Suitable for pouring out moulds
(e.g. vacuum and foam moulds),
making fixing devices and tools
(e.g. injection dies) which are
exposed to high temperatures.

Temperature resistant up to +220°C
(+428°F).



WEICON F

Putty, aluminium-filled

Filling blowholes and reconditioning
of parts (e.g. injection moulded
parts, holding devices).

WEICON F2

Viscous, aluminium-filled

Making of castings, moulds and
templates, prototypes and fixing
devices. Ideal for pouring out
swages to test their exactness or
for pouring out fixing devices in
ultrasonic welding machines.

WEICON SF

Putty, steel-filled,
fast-curing



For quick repairs
and bondings (e.g. on leaky pipes,
 housings and gears) as well as
for making anchorages and fixing
devices.

WEICON WR

Liquid, steel-filled, wear resistant

Repair of shafts, pouring out
bearings, cutting and punching
tools, making of castings, drawing
moulds, underpouring machines and
foundations.



*Approval Certificate of Germanischer Lloyd

Two-component
adhesives

Plastic Metal

The ideal material for repair
and maintenance, tool and
mould making



WEICON WR2

Putty, mineral-filled, wear resistant

For repairs on conveyors, guides and sliding ways where rolling or sliding movements cause wear. Also for lining pump housings and extruders and for the repair of worn-out flanges.

WEICON Ceramic BL

Liquid, mineral-filled,
extremely wear resistant

Brushable surface protection with extremely high wear and abrasion resistance.

As a preventive coating or applied after repair, it reduces abrasion on castings, valves, blower vans and in many other applications.



WEICON HB 300

Putty, steel-filled

An easy-to-use putty that can also be applied on vertical surfaces. Mixing ratio 1 : 1, high temperature resistant up to +280°C (+536°F).

WEICON UW

Putty, steel-filled,
curing under water



WEICON TI

Putty, titanium-filled

Especially suitable for applications that require high compressive strength and extreme chemical resistance, e.g. repair of pumps, valves, wearing plates, ball bearing seats, shafts, centrifugal pumps and propellers.

Also for lining pump housings, slide bearings, etc.



Special putty type with very high bonding strength on damp and wet surfaces and even under water. Particularly suitable for repair and maintenance jobs in the marine and off-shore sector.

Mixing ratio 1 : 1



Two-component
adhesives

Plastic Metal

The ideal material for repair
and maintenance, tool and
mould making



WEICON Ceramic W
Putty, mineral-filled,
extremely wear resistant

Provides a white surface protection
coating with extremely high
resistance against abrasion and
chemical substances.
High temperature resistant, briefly up
to +260°C (+500°F).



WEICON ST
Putty, metallic-filled

High-grade, non corrosive putty
for various repair and maintenance
works on machine parts and stain-
less steel equipment.



**WEICON Casting Resin
MS 1000**
Liquid, unfilled

Universal casting and laminating
resin system. May be filled with a
variety of different fillers. Can also be
used as back-filling material.

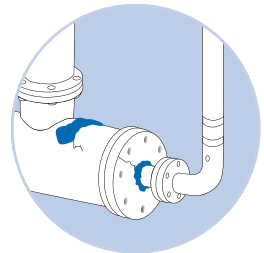
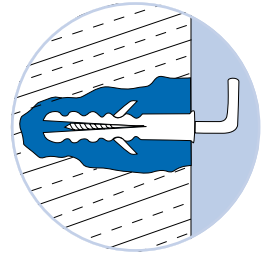
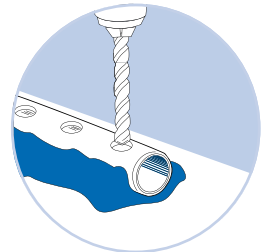
**WEICON Epoxy
Resin Putty**

The versatile problem solver for
repair, maintenance and construction.

Epoxy Resin Putty is an easy-to-
apply, cold curing two-component
putty suitable for sealing, fastening,
bonding and repairing.



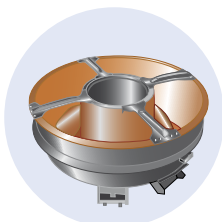
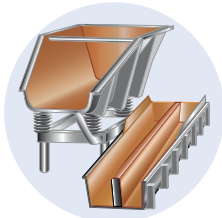
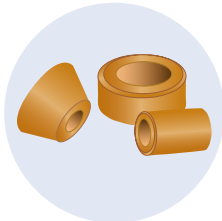
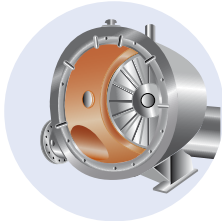
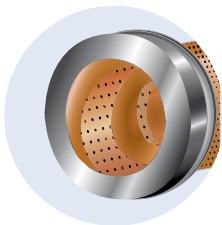
The cured material can be machined
(e.g. drilled, filed, milled) and
overpainted without pretreatment.



Two-component
adhesives

Urethane

Flexible Casting and
Coating Resin with high
impact strength and
abrasion resistance



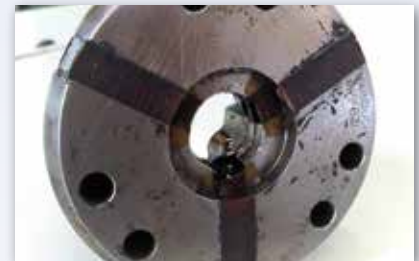
WEICON Urethane

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

Urethanes adhere to a variety of materials such as metals, concrete, rubber, wood, fibreglass and many others.

Available in Shore A hardnesses of 45, 60 and 80.

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.



They are also suitable as flexible coatings in connection with Plastic Metal (epoxy) systems.

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



Two-component
adhesives

Repair Sticks

The easy solution
for all repair and
maintenance works



WEICON Repair Sticks

Easy to use: Cut off – knead – use

Temperature resistant from -50°C (-58°F) up to +120°C (+248°F), briefly up to +150°C (+302°F).

– Type Aqua – ideal for repairs on wet and damp surfaces and for under water applications.



– Type Aluminium – for non-rusting repairs and bondings of aluminium and other metal parts.

– Type Steel – especially for quick and high-strength repairs and bondings of steel and other metal parts.

– Type Titanium – for high temperature and wear resistant repairs and bondings of metal parts. Temperature resistant up to +280°C (+536°F) briefly up to +300°C (+572°F).

– Type Copper – very short pot life (4 min.). For quick repairs of cracks, holes and leakages.



– Type Wood – for durable and elastic, non-shrinking repairs of wooden parts.

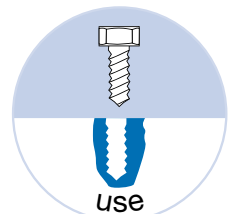
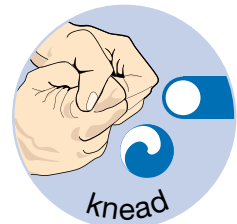
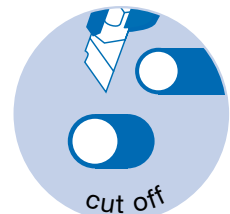
– Type Plastic – especially for durable repairs of plastic parts* and fibre reinforced materials (GFRP, CFRP, fibre glass) with residual elasticity as well as for bondings of metal parts.

*except for plastics such as PE, PP, PTFE, etc.

– Type Concrete – For quick repairs and reconditioning of all concrete and stone parts. Fills and closes cracks and defect parts on masonry, stone slabs, concrete slabs and tiles, bricks, borders and kerbstones, statues, gravestones and ornaments.

– Type Stainless-Steel – For non-corroding repairs and reconditioning of stainless steel parts and other rust-proof metals.

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



COMPONENTS
REPAIR SYSTEMS

NSF = Non-food Compounds
Registration Programme
For the types: Steel, Copper,
Plastic and Stainless-Steel

Two-component
adhesives

Easy-Mix

fast
safe
economical



WEICON Easy-Mix Mixing and Dosing System

Thanks to the modern mixing and dosing system WEICON Easy-Mix, many different products can be cleanly and accurately automatically dosed, mixed and applied in only one working operation. A time-consuming and perhaps incorrect processing is avoided.

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

Product advantages:

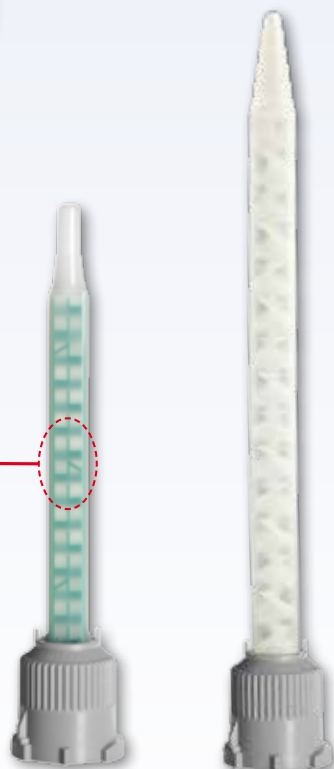
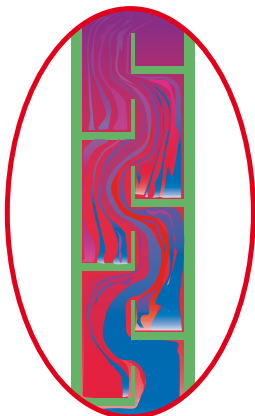
- ready for use
- dosing, mixing and application in just one working operation
- tedious mixing by hand is no longer necessary, so that no mixing and dosing mistakes are possible
- speedy in application
- faster cycle times in series production possible
- economical in use, as minimal material wastage

The system consists of the following components:

- dosing gun D 50, suitable for 50 ml cartridges
- different adhesives in 50 ml cartridges
- especially developed mixing nozzles for optimum mixing and minimum material waste at the same time

The WEICON Easy-Mix dosing system can be used for the following products:

Easy-Mix S 50
Easy-Mix N 50
Easy-Mix N 5000
Easy-Mix Metal
Easy-Mix RK-7000/RK-7100
Easy-Mix PE-PP 45
Easy-Mix PU-90/PU-240



Two-component
adhesives

Epoxy Adhesives

high strength
residual elasticity
process-safe



WEICON Easy-Mix S 50

For quick repair and maintenance jobs. Ideal too for series production with short cycle times.

- viscous, self-levelling
- very short pot life (4-5 minutes)
- fast-curing
- pale yellow, clear

WEICON Easy-Mix N 50

Ideal for manufacturing processes with assembly and positioning carried out at different times.

- viscous, self-levelling
- normal pot life (45 minutes)
- longer curing time
- yellow, opaque

WEICON Easy-Mix N 5000

Particularly suitable for connections where appearances are important.

- liquid, self-levelling
- shorter pot life (20 minutes)
- normal curing time
- almost colourless, glass clear

WEICON Easy-Mix Metal

Ideal for repairs requiring large tolerance gaps to be bridged.

- steel-filled
- viscous, self-levelling
- very short pot life (5 minutes)
- machinable after curing
- fast-curing
- black

WEICON Minute Adhesive

Especially suitable for occasionally necessary repair and maintenance works. They are applied by using the practical double syringe.

This means that resin and hardener are delivered automatically in the right proportions. After this, the mixing is done manually. Two types are available:

WEICON Epoxy Minute Adhesive

Cures to a transparent material with residual elasticity.

- viscous, self-levelling
- very short pot life (3-4 minutes)
- fast-curing
- almost colourless, glass clear

WEICON Fast-Metal Minute Adhesive

Due to its high viscosity (paste consistency), this steel-filled adhesive cannot only be applied to vertical surfaces, it can also be used to fill cracks, bubbles and uneven surfaces. Ideal for repairs requiring large tolerance gaps to be bridged.

- paste consistency, gap-filling
- very short pot life (3-4 minutes)
- quick-curing
- machinable (grinding, filing, drilling etc.)
- anthracite



Two-component
adhesives

Methyl Methacrylate Adhesives

high strength
residual elasticity
process-safe



WEICON Easy-Mix RK-7000 and RK-7100

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 PE-PP 45

Two-component construction adhesive on the basis of methyl acrylate.

In particular suitable for structural, high-strength bonding of low energy plastics such as PE, PP and TPE. A pre-treatment of the surfaces to be bonded is not required.

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, these pretreatments are no longer required. The "primer integrated" into the adhesive



activates the surfaces and makes high-strength bonds possible.



Two-component
adhesives

New

Structural Polyurethane Adhesives

fast
strong
process-safe

Easy-Mix PU-90/PU-240

High-strength, fast-hardening 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 (-67°F) to +125°C (+257°F)

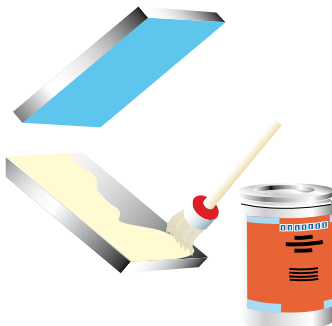
PU-90: Pot life approx. 90 seconds
PU-240: Pot life approx. 240 seconds



Two-component
adhesives

RK-Construction Adhesives

high strength
residual elasticity
impact resistant



WEICON RK-1300 and RK-1500

Two-component “No-Mix” structural adhesives. They provide high strength bonding even of large surfaces. The activator component can be applied up to 30 days prior to final bonding.

WEICON RK-1300 and RK-1500 are suitable for all metal surfaces (even coated) and many plastics. They also bond glass to metal.

Both adhesives distinguish themselves by their extraordinary peel strength and temperature resistance, briefly up to +180°C (+356°F).



For assembly, only the adhesive component – polymerizing upon contact with the activator – is applied. The cure time is 2 to 4 minutes.





One-component
adhesives

New

Rubber Metal Adhesive

fast-curing
strong
permanently elastic

WEICON GMK 2410

WEICON GMK 2410 is a solvent-based Polychloroprene (CR) contact adhesive used for strong and flexible full-surface 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. After curing, the joint is resistant to humidity.



WEICON GMK 2410 is not suitable for materials like e. g. expanded polystyrene, polyethylene, polypropylene, flexible PVC foam, and artificial PVC leather.

Especially suitable for:

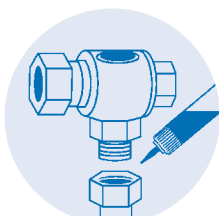
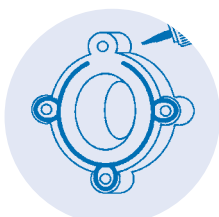
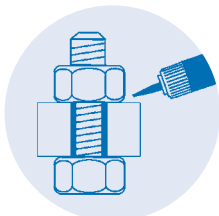
- Bonding rubber to metal plates
- Bonding rubber profiles, door seals in motor vehicles and utilities
- Fixing insulation material or sound absorbing foils/plates to construction parts
- As economic allround contact adhesive for industrial applications



One-component
adhesives

WEICONLOCK® Anaerobic Adhesives and Sealants

locking • sealing
retaining • gasketing



WEICONLOCK®

One-component anaerobic adhesives and sealants, especially made for metal assembly parts.

WEICONLOCK is a fast, reliable and economical product for retaining, sealing and gasketing all kinds of threaded, cylindrical or flanged joints.

In threaded joints, for example, WEICONLOCK completely fills the threads, thus creating the largest possible surface contact.

WEICONLOCK is ideal for locking and sealing threaded connections up to M 80 as well as for pipe and coarse threaded joints up to 3". Bearings, bushings, bolts and other slip-fitted or press-fitted parts can be retained with WEICONLOCK.



WEICONLOCK remains liquid as long as it is in contact with air. Curing does not start until the adhesive on the jointed parts comes into contact with metal and is deprived of air.



WEICONLOCK Activator F

The cure time can be reduced considerably by pre-treatment with WEICONLOCK Activator F, which is recommended for all passive surfaces and which is indispensable at low ambient temperatures (less than +10°C / +50°F) and for large gaps.

One-component
adhesives

WEICONLOCK® Anaerobic Adhesives and Sealants

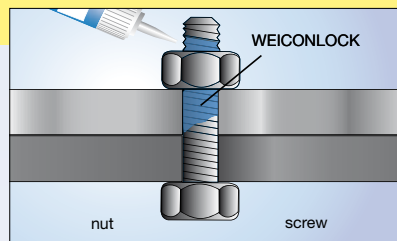
locking • sealing
retaining • gasketing



Application:

Threadlocking

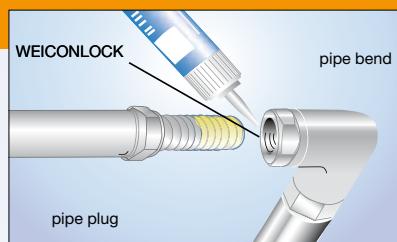
- Screws and nuts
- Stud bolts



Application:

Sealing of threaded pipes and fittings

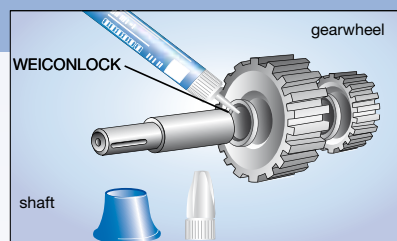
- Threaded connections
- Hydraulic and pneumatic systems
- Cooler and compressed air systems



Application:

Retaining cylindrical assemblies

- Shaft / hub-connections
- Coupling hubs, pulleys, bearings
- Cylindrical parts; slip-, press- or shrunk-fitted



Application:

Flange sealing, gasketing

- Flanges
- Cases
- Lids



One-component
adhesives

WEICONLOCK® Anaerobic Adhesives and Sealants

locking • sealing
retaining • gasketing



WEICONLOCK®

Anaerobic adhesives and sealants for passive materials like chrome, zinc, nickel, stainless steel and aluminium.

Quick and high strength joints without activator. For applications where passive surfaces are involved, where the use of an activator is not wanted but where a rapid cure is required, our recommended types are:

AN 302-60

Threadlocking, medium viscosity, high strength

AN 302-80

Sealing of threaded pipes, higher viscosity, high strength

AN 306-10

Retaining cylindrical assemblies, medium viscosity, high strength

AN 306-30

Retaining cylindrical assemblies, higher viscosity, high strength

Handling strength is reached much quicker with these new types compared to the standard products (without activator).



WEICONLOCK®

transparent

Is applied wherever a coloured adhesive and sealant should not or may not be used for optical reasons or where it is unsuitable for the design.

AN 302-40

Threadlocking, medium viscosity, medium strength

AN 302-50

Threadlocking, medium viscosity, high strength

AN 306-00

Retaining cylindrical assemblies, medium viscosity, high strength

AN 306-50

Retaining cylindrical assemblies, higher viscosity, medium strength



One-component
adhesives

WEICONLOCK® White Line

locking • sealing
retaining • gasketing



WEICONLOCK® White Line

New

In order to take the increased requirements in the field of health protection and safety at work into account, WEICON introduced the WEICONLOCK »White Line«. The new formulations also enable use in sensitive production areas.



AN 301-43

Threadlocking, medium-strength,
– marking-free –

AN 301-70

Threadlocking, high-strength,
– marking-free –

AN 301-72

Pipe and flange sealing with PTFE,
medium-strength, resistant to high
temperatures up to +200°C (+392°F)
– marking-free –

AN 301-38

Retaining cylindrical assemblies,
high-strength

AN 301-48

Retaining cylindrical assemblies,
high-strength, resistant to high
temperatures up to +175°C (+347°F)

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

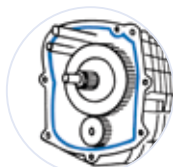
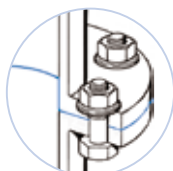
- NSF drinking water approval in accordance with ANSI 61
- No marking with danger symbols and risk or safety statements of the safety data sheet in accordance with the EC Regulations No.1907/2006 – ISO 11014-1
- Increased safety at work and health protection
- Excellent resistance to chemicals after curing



Jednoskładnikowe
środki klejące

Plast-o-Seal®

Permanently plastic
universal sealant



WEICON Plast-o-Seal®

For sealing the faces of machine, gearbox and motor casing flanges and to improve the performance of both old and new gaskets made from paper, cork, felt etc.

An excellent resistance to most fuels, mineral oils, water, air, coolant mixtures based on methanol and glycol, anti-freezes, kerosene, fluorocarbon refrigerants, etc., makes Plast-o-Seal suitable for a wide field of applications.



Without mechanical gaskets, the gap filling capability is up to 0.1 mm. Due to its non-sag property, WEICON Plast-o-Seal can even be used on vertical surfaces.

WEICON Plast-o-Seal is non-corrosive, free of silicone and solvents, neutral in odour and has a fluorescent blue colour.

Evaporation is not necessary, thus enabling immediate assembly of the parts.

Temperature resistant from -50°C (-58°F) to +250°C (+482°F).

WEICON Plast-o-Seal compensates for manufacturing defects such as scoring and scratches, thus enabling accurate assembly and construction with low tolerances. There is no need to overtighten fixings during assembly.

WEICON Plast-o-Seal remains permanently plastic, both before and after assembly. It allows easy joint dismantling and is economical in use.





Thread Sealing Cord DF 175

Thread Sealing Cord DF 175

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 $+240^{\circ}\text{C}$ ($+464^{\circ}\text{F}$).

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).

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 durable for an unlimited period of time and stays permanently soft and elastic.

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



BAM-tested for oxygen, gaseous: up to 30 bar/ $+100^{\circ}\text{C}$ (application with lubricant)
BAM-tested for oxygen, liquid: up to 30 bar/ $+100^{\circ}\text{C}$ (application without lubricant)



DVGW for gas according to DIN EN 751-3 FRp and GRp and DIN 30660.
DVGW test up to 100 bar according to DIN EN 751-3 FRp and GRp at room temperature.
Unscrewing up to 45° tested and certified by DVGW



Drinking water test according to the KTW recommendation of the Bundesgesundheitsamt (German Health Authority)



KIWA GASTEC Qa (NL): norm. 31, Class "20"

One-component
adhesives

Contact Cyanoacrylate Adhesives

super fast
economical
versatile
durable



WEICON Contact

Cold-curing 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 themselves
and among each other, such as
metals, plastics, glass, ceramics,
wood, leather, natural and
synthetic rubber. WEICON Contact
Cyanoacrylate Adhesives provide
high structural strength, with a



temperature resistance from -50°C
(-58°F) up to $+135^{\circ}\text{C}$ ($+275^{\circ}\text{F}$) and
good levels of resistance to a lot of
chemicals.

In many instances, the cured bond joint
proves to be stronger 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.

One-component
adhesives

Contact Cyanoacrylate Adhesives

super fast
economical
versatile
durable



WEICON Contact Primer for Polyolefines

Plastics that have been pre-treated with WEICON Contact Primer change their surface structure.

Thereby, the joining of materials like polyethylene (PE) and polypropylene (PP), belonging to the polyolefine group, is made possible.



WEICON Contact Filler

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

Contact Filler should be applied in layers: adhesive – filler – adhesive.

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

WEICON CA Activator-Spray

Use is recommendable with:

- highly viscous WEICON Contact types
- large thickness of the adhesive layer
- absorbing and porous surfaces
- passive materials (alkaline surfaces like e.g. zinc coated metal parts).
- disadvantageous environmental conditions (low temperatures, too low air humidity < 30%)



One-component adhesives
and sealants, silicon-free

Flex 310 M®

elastic
strong
overpaintable
sandable
free of isocyanate
and solvents



WEICON MS-Polymers

Elastic adhesives and sealants are used today 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.

Under the brand WEICON Flex 310 M, a variety of high-quality adhesives and sealants is available.

WEICON Flex 310 M are one-component products on an MS polymer basis. They are used for permanently elastic bonding and sealing of different materials to themselves or among each other.

WEICON Flex 310 M® Classic

For versatile use. Very good adhesion without primer on aluminium, stainless steel and many other surfaces. Excellent aging and UV stability. Sandable after curing.

WEICON Flex 310 M® Crystal

Crystal-clear after curing. Excellent adhesion on glass, PC*, PMMA* and acrylic glass. Therefore, especially suitable for elastic joints where the adhesive shall not or must not be visible.

* = only for tension-free bonding.

WEICON Flex 310 M® Super-Tack

Very high initial strength. For metals, plastics and many other materials. In particular suitable for bonding on vertical surfaces, indoor and outdoor. Replaces screws, pegs, rivets, and other traditional fixings.

WEICON Flex 310 M® HT 200

High-temperature resistant. Very good adhesion on metal and most plastics. Allows bonding and sealing of parts before thermal coating (e.g. powder coating).

ISEGA

ISEGA
Certificates of Conformity for
WEICON Flex 310 M® Crystal and
WEICON Flex 310 M® Classic as adhesives
in the foodstuff technology



One-component adhesives
and sealants, silicon-free

Flex 310 M®

elastic
strong
overpaintable
sandable
free of isocyanate
and solvents

WEICON Flex 310 M® 2 K

Fast-curing, elastic two-component adhesive and sealant on a hybrid polymer basis. Especially suitable for structural and permanently elastic bonding in industrial manufacture and assembly.

The two-component system also enables surface-to-surface bonding of bigger parts and fills gaps up to max. 10 mm.

Due to its pre-defined and process-safe curing system, WEICON Flex 310 M 2 K is ideal for series production.

WEICON Flex 310 M 2 K adheres even without primer on almost all materials, e.g. metals, plastics and many others.



WEICON Flex 310 M® Stainless-Steel

Elastic one-component adhesive/sealant on the basis of a MS polymer. Flex 310 M Stainless-Steel contains neither substances that disturb lacquer wettings (e. g. silicone) nor solvents or isocyanates.

Flex 310 M Stainless-Steel has a high adhesion power and does not cause corrosion on sensitive surfaces. Therefore, it is particularly suitable as bonding agent or joint and seam sealant on stainless steel, aluminium and non-ferrous metals, for example in:

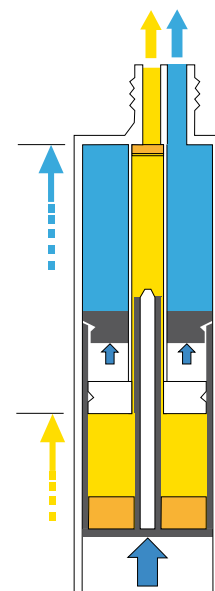
- Metal construction, container and apparatus engineering
- Food industry
- Kitchen and sanitary installations
- Ventilation and air conditioning systems

and wherever silicones or silicone-containing products are not suitable or desired.

Flex 310 M Stainless-Steel is used in all applications where the colour of the adhesive/sealant shall be adjusted to the surface material (e. g. stainless steel, aluminium, etc.).

ISEGA

ISEGA
Certificates of Conformity for
WEICON Flex 310 M® Stainless-Steel as
adhesive in the foodstuff technology.



One-component adhesives
and sealants, silicon-free

Flex+bond®

Elastic and strong
adhesive/sealant



WEICON Flex+bond®

This product distinguishes itself by its wide range of application possibilities and the high adhesive force.

It bonds and seals nearly all materials such as metals, wood, plastics, glass and ceramics to themselves and among each other and is therefore the excellent product for a great variety of repairs and bondings as well as for the sealing of seams and joints.

Flex+bond remains permanently elastic and can be sanded (after curing) and overpainted* (wet in wet).

Available in white, grey, transparent and black colour.

* Only "wet in wet," within 3 hours at the latest after material application with suitable paint coating systems (with exception of alkyd resin paints).

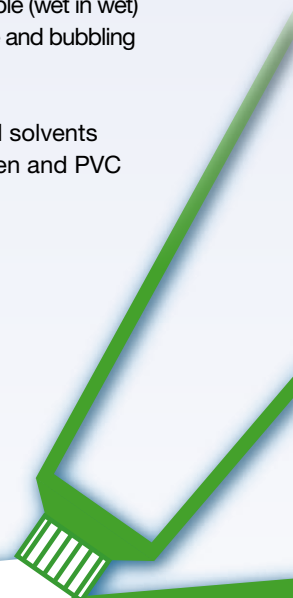
Here are some striking arguments!

Flex+bond is:

- permanently elastic
- temperature resistant from -40°C (-40°F) up to +90°C (+194°F), briefly (2-3 hours) up to +130°C (+266°F)
- resistant to weathering and UV rays
- resistant to salt water
- neutral in odour
- immediately overpaintable (wet in wet)
- cures without shrinkage and bubbling
- sandable
- resistant to ageing
- free of isocyanate and solvents
- free of silicone, halogen and PVC

ISEGA

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Certificates of Conformity for
WEICON Flex+bond® as adhesive
in the foodstuff technology.





One-component adhesives
and sealants, silicon-free

Speed-Flex® Aqua-Flex

elastic, strong
overpaintable
sandable
free of isocyanate
and solvents

WEICON Speed-Flex®

Strong and universally usable power adhesive with extremely high initial adhesive strength; on MS polymer basis.

Replaces traditional fixings like screws, pegs, rivets, etc.

Speed Flex is pasty and stable and, thus, suitable for problem-free bonding even on vertical surfaces both in-house and outside.



WEICON Aqua-Flex

The ideal sealant and adhesive on MS polymer basis for wet and humid surfaces.

Suitable for metals, many plastics, ceramic, wood, glass, stone any many other materials. Good adherence on aluminium and stainless-steel, even without primer.



Suitable for:

- sealing tubes and water pipes
- the repair of tiles and joints, even under water
- bonding decoration elements in gardens, PVC foils, etc.
- sealings in humid areas and in the sanitary sector
- bondings and repairs in the maritime sector
- repair of roof leakages



Cartridge gun
WEICON „Special“



ISEGA

ISEGA
Certificates of Conformity for
WEICON Aqua-Flex and Speed-Flex® as
adhesives in the foodstuff technology.

One-component adhesives
and sealants, silicon-free

Solar-Flex®

elastic
strong
overpaintable
sandable
free of isocyanate
and solvents



WEICON Solar-Flex®

Strong, elastic adhesive on MS polymer basis, especially suitable for the solar industry.

Both the very high initial bonding power and the fast development of adhesive strength enable bondings even on vertical surfaces.

Replaces traditional fixings in the assembly of solar and photovoltaic power systems.

For strongly stressed adhesive bonds in the following areas:

- Solar power systems
- Junction boxes
- Marking systems
- Metalworking
- Tank and apparatus construction
- Ventilation and air conditioning and wherever silicone or products containing silicone are unsuitable.

Advantages of Solar-Flex:

- High initial adhesive strength on vertical surfaces
- Broad range of adhesion, even on most surfaces
- Resistant to weathering and UV
- Free of silicone, isocyanate, and halogen
- Solvent-free, odour-free, non-corrosive
- Sandable (after hardening)



Berichts-Nr.: 2121002	
Hauptart	
gemäß DIN 9134-1:2000	
Bezeichnung	
WEICON Solar-Flex® MS-Polymer	
Hersteller	
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40700 Essen	
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Webseite	
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One-component adhesives
and sealants, silicon-free

Silicone

bonding
insulating
sealing
casting

WEICON Silicones

Permanently elastic sealants and adhesives for bonding glass and metal constructions as well as for sealing gears and flanges.

Silicones are suitable for a wide range of industrial applications; one of their main features is their extraordinary high temperature resistance (up to +300°C/+572°F).

All WEICON Silicones offer excellent weathering, aging and UV resistance.

Furthermore, they are very stable against chemicals and mechanical loads.

WEICON Silicone A

– acetate cross-linking –

Permanently elastic silicone sealant with high adhesive strength. Especially designed for high-performance applications in industrial fabrication.

Excellent adhesion on steel, aluminium, glass, ceramic, and many other materials.

WEICON Silicone N

– neutrally-vulcanizing –

Neutrally-vulcanizing and non-corrosive silicone sealant. Very good adhesion on all metals, glass, ceramic and many other materials.

Different from acetate-cross-linking silicones, there is no corrosion on aluminium or nonferrous heavy metals due to the special vulcanizing system (oxime). In applications on sensitive plastic surfaces (PC, PMMA, etc.), tension cracks do not occur.

WEICON Silicone F

– liquid, self-levelling –

Liquid, self-levelling casting and sealing compound. Especially for elastic bonding, insulation and impregnation in industrial use.

Also for sealing and casting (max. 10 mm) of technical components. Good adhesion on steel, aluminium, glass, ceramic and many other substrates.



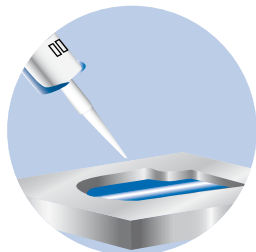
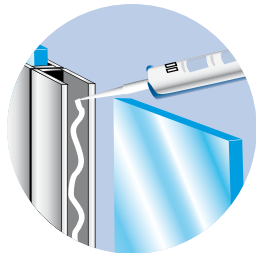
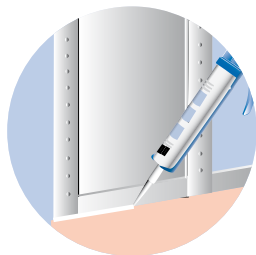
One-component adhesives
and sealants, elastic

Silicone Polyurethane

bonding
insulating
sealing
casting

ISEGA

ISEGA
Certificates of Conformity for WEICON Flex 310
as adhesive in the foodstuff technology.



WEICON HT 300 – high-temperature resistant –

High temperature resistant silicone sealant with excellent adhesive strength. Temperature resistant from -60°C (-76°F) up to $+300^{\circ}\text{C}$ ($+572^{\circ}\text{F}$).

In particular suitable for heat-exposed elastic bonding and sealing. Very good adhesion on steel, aluminium, glass, ceramic and many other materials.

WEICON Black Seal – Special Silicone –

Special grade silicone sealant, suitable for all applications where a special resistance to oils, greases and high temperatures is required.



Excellent adhesion on steel, aluminium, glass, ceramic and many other materials.

WEICON Flex 310 – Polyurethane Adhesive –

Elastic and strong adhesive and sealant on the basis of polyurethane (PUR).



A versatile product for bonding and sealing of metals, most plastics, ceramic, wood, glass, stone and many others.

WEICON Fast-Bond – Structural and Assembly Adhesive –

Fast-curing one-component structural and assembly adhesive on the basis of polyurethane (PUR), universal in use. Suitable for plates of MDF or wood, flake or gypsum plaster boards, concrete, marble, natural or artificial stone, ceramic, metals, rigid foams (e. g. polystyrene), etc.

Metal Sprays

Surface and anti-corrosion coating



WEICON Zinc Spray Antirust Primer



Provides a durable cathodic corrosion protection for all metal surfaces, e.g. hot-galvanised parts.

The new zinc flakes form an extraordinarily resistant protective layer, also with extreme weather and environmental conditions.

Temperature resistant up to +500°C (+932°F), type "bright grade" up to +300°C (+572°F).



Zinc Spray forms a fast-drying, adherent protective layer of micro-fine zinc flakes.

WEICON Zinc Spray "bright grade"



In addition to the applications mentioned before, this product is often used to repair damaged hot-galvanized surfaces in matching colour.

WEICON Rust Protection 2000 PLUS



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.

In the salt spray test according to DIN 53167 and DIN 50021, metals do not show any corrosion even after more than 2,000 hours*. This corresponds to more than 20 years of natural weathering. Compared to WEICON Zinc Spray (with zinc flake technology), a four times higher corrosion protection is achieved, compared to traditional zinc coatings on the basis of round pigments, the corrosion protection lasts even up to eight times longer.

* applied in two cross-coated layers onto an undamaged zinc undercoat.



Metal Sprays

Surface and
anti-corrosion coating



WEICON Aluminium Sprays

They contain aluminium pigments of a purity of $> 99.5\%$ and offer excellent corrosion prevention for all metal surfaces.

Type A-100: abrasion resistant
Type A-400: highest brilliancy



Aluminium Sprays are resistant to most acids, lyes and to weathering.

The coating withstands temperatures up to $+800^{\circ}\text{C}$ ($+1,472^{\circ}\text{F}$).

WEICON Zinc-Alu Spray

Durable protection of all metal surfaces against rust and corrosion, providing a fast drying and adherent protective layer of micro-fine zinc-aluminium particles. Resistant to many chemicals.

WEICON Stainless Steel Spray

Corrosion and weathering resistant surface coating.

Due to its outstanding chemical resistance, this spray allows the use wherever reliable and effective surface protection is required.

The alloy is made of e.g. chromium, nickel and manganese.

WEICON Stainless Steel Spray „bright grade“

New

Corrosion and weather resistant surface coating based on stainless steel pigments.

The plate-like pigments used in the new WEICON Stainless Steel Spray have a large, specific surface geometry, and therefore a high barrier effect (shingle effect).

For the optical alignment of stainless steel parts as for example V2A and V4A.



Metal Sprays

Surface and anti-corrosion coating



WEICON Copper Spray

High-quality, weather-resistant metal spray with high adhesion power for protective and decorative coatings, with 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.

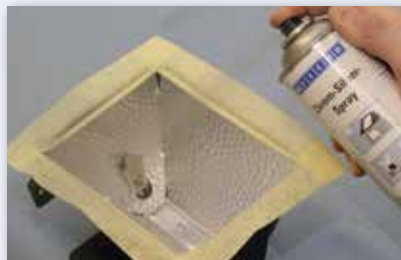
WEICON Brass Spray

Purely metallic coating in the typical brass colour.

For the protection and optical refinement of various materials.

WEICON Chrome-Silver Spray

High-brilliance surface coating. The special formulation and highest purity of the metal pigments create an extremely high gloss finish (chrome effect).



WEICON Corro-Protection

Enables temporary conservation of tools and metal precision parts for indoor storage and during overseas transport. Creates a waxy and hand-dry protective, flexible film free of silicones or silicone-containing materials. With temperatures of -20°C (-4°F) to $+80^{\circ}\text{C}$ ($+176^{\circ}\text{F}$), the layer is also resistant to salt water*.

The protective layer can be removed easily (e.g. with WEICON Cleaner S).

* 240 h salt spray test according to DIN 50021



Technical Sprays

Cleaning and degreasing



WEICON Cleaner Spray S

Degreases and cleans all metals, glass, ceramics and most plastics. Even gummy lubricants can be removed.

This spray is recommended for the pre-treatment of surfaces in applications with other WEICON products where greasy or oily layers would reduce their effectiveness. Cleaner Spray S evaporates quickly and cleans without leaving residues.

WEICON Surface Cleaner

For cleaning and degreasing surfaces to be joined or sealed with WEICON adhesives and sealants.

This cleaner can be applied on materials like metal, glass, ceramic and most plastics*.

Only grease-free and clean surfaces guarantee both good adhesion and reliable curing of the adhesive.

* Check surface compatibility prior to use.

WEICON Brake Cleaner

Multi-purpose cleaner, especially for the automotive sector. Different from traditional products, Brake Cleaner evaporates without leaving residues. Degreases and cleans quickly and efficiently oily and greasy residues and dirt.



Technical Sprays

Cleaning and degreasing



WEICON Burner Cleaner

Especially formulated to remove greases, oil, soot and other dirt accumulation from burner parts, without leaving residues.



WEICON Mould Cleaner

Highly active organic solvents remove resin, release agent residues and other substances from the surfaces of the moulds.

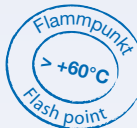


Parts and Assembly Cleaner

Especially developed cleaner for coarse, oily and greasy soiling.

Because of the long working time, also suitable for cleaning bigger or heavily resinified surfaces.

Parts and Assembly Cleaner is free of acetone, butanol, ethyl acetate, etc.



WEICON Plastic Cleaner

The ideal product for cleaning and degreasing sensitive surfaces, e.g. window frames and roller blinds, plastic and rubber profiles.



Technical Sprays

Cleaning and degreasing



WEICON Multi-Foam

The powerful foam cleaner for metals, plastics, lacquered surfaces, glass, tiles, textiles, carpets and upholstery.



WEICON Compressed-Air Spray

This spray is used where traditional methods of dust clean-up would not work, as on parts of difficult access. It allows to dedust corners and sensitive surfaces in a dry and contact-free way.



WEICON TFT / LCD Screen Cleaner

For the cleaning and care even of sensitive plastic and glass surfaces. TFT / LCD Screen Cleaner removes dirt, dust, grease and nicotine and cleans carefully without leaving residues. Its antistatic effect provides a dirt and dust-rejecting surface.



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.



Technical Sprays

Cleaning and degreasing



WEICON Electro Contact Cleaner

New

Electro Contact Cleaner is used for fast and efficient cleaning and degreasing of soiled or corroded contacts of all kinds.

This special formulation with high-purity solvents removes oxide or sulphide layers, combustion residues as well as resinous or sooty soiling from electro-technical or mechanical



parts like measuring instruments, tools, balances, switches, sensors, etc.

Electro Contact Cleaner reduces voltage losses and increases the electric conductivity. Contamination that can cause tracking current is removed.

WEICON Citrus Cleaner

New

Powerful and gentle cleaning on a natural basis (ph-neutral). The excellent cleaning effect results from the special pH neutral active substance combination. Citrus Cleaner penetrates the grime, cleans powerfully and is non-corrosive. Can be used on all surfaces like metal, plastic, glass, ceramics, painted and coated surfaces.



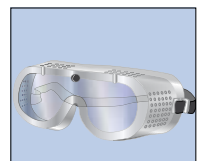
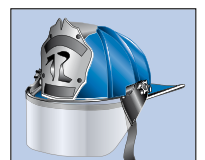
WEICON Visor Cleaner

New

WEICON Visor Cleaner is the ideal product for the cleaning and care of sensitive plastic and glass surfaces, e. g. visors, safety goggles, welding face shields, protection caps, safety glass etc.

Impurities caused by insects, dirt, dust, grease or nicotine are carefully removed without leaving residues.

Visor Cleaner is antistatic and anti-reflective, reduces dazzling and improves the sight.



Technical Sprays

Lubricating and
multifunctional oils



WEICON AT-44

- Allround Spray with PTFE -

For use in all sectors of industry and workshops.

By its special formula, the product combines effectiveness in corrosion prevention, cleaning, water displacement, lubrication and conservation.

WEICON W 44 T® Turbo-Power-Spray

High-performance spray for all servicing and maintenance works. It is used in all fields of industry, workshops, household and hobbies.

W 44 T loosens seized threads, displaces moisture, eliminates squeaky and creaky noises, cleans dirty metal surfaces and protects and preserves tools.

WEICON Silicone Spray

Sliding and release agent for efficient production and maintenance.

Also used as a preservative and care product for plastics, rubber and metals.

Silicone Spray provides a durable separating film and good surface properties.

WEICON Fitting Spray

Fitting Spray is a maintenance and care agent with good adhering properties for all movable parts at windows, doors, gates, etc.

The transparent product is free of silicones, resins, acids and solvents.

Due to its special creeping and water-repellent properties, Fitting Spray reduces friction and wear and suppresses squeaky noises.



Technical Sprays

Lubricating and
multifunctional oils



WEICON Bio-Cut

Bio-degradable, high-performance cutting oil that allows faster cutting speeds and longer tool life. The performance of cutting and punching tools is considerably improved.



WEICON Bio-Fluid

High-purity, medical-grade lubricant, free of resins and acids, suitable for cleaning and care of bare metal surfaces.

Specifically developed for use in the food, pharmaceutical and cosmetic industry (complies with the German DAB 10 regulations).



NSF = Non-food Compounds
Registration Programme
For the type WEICON Bio Fluid

WEICON PTFE-Spray

Dry, clean and grease-free PTFE-based lubricant with excellent sliding properties.



Anti-Friction Spray MoS₂

New

Dry lubrication with high pressure and temperature resistance.



Anti-Friction Spray MoS₂ forms a dust-, dirt- and water-rejecting separation layer with very good resistance to oils, greases and many chemicals.

The high portion of MoS₂ provides a clean sliding lubrication, reduces friction, has excellent emergency running properties and reduces running noises.



Technical Sprays

4

Technical Sprays

Adhesive lubricants



WEICON Chain and Rope Lube Spray

Deeply penetrates chain links and ropes. Due to its excellent adhesion and compressive strength,



elongation, friction and wear are considerably reduced.

WEICON Top-Lub

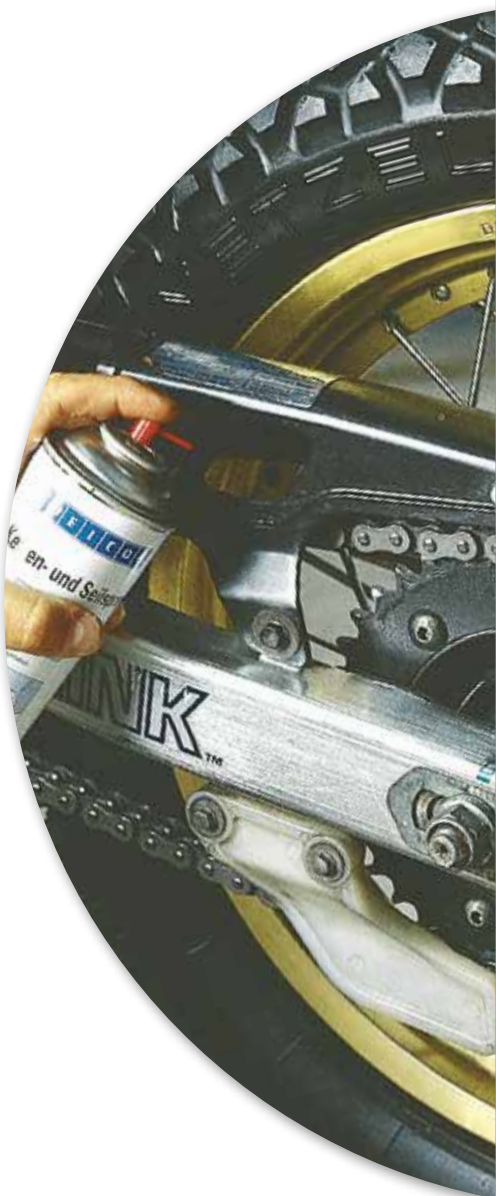
Long-term lubrication for power-transmitting bolts, hinges, guides, bearings, joints and couplings.

WEICON Belt Dressing Spray

New

Transparent belt coating based on synthetic elastomers for highly stressed drive belts of different kinds.

WEICON Belt Dressing Spray has been developed for industrial applications in machines, aggregates, compressors, pumps, generators, conveyors, mills, pillar drills, cooling units, CVT belt drives and ship engines.





WEICON Adhering Grease - extra strong -

Adhering Grease has excellent lubricating properties and protects against corrosion and wear as well as against aggressive liquids (e. g. salt water, sewage water). Also suitable for underwater applications.

WEICON Spray-on Grease H1

Odourless and tasteless grease that has been formulated especially to meet the requirements of the food, cosmetic and pharmaceutical industry.

Spray-on Grease H1 is oriented to the high quality and safety standards of these sectors.

WEICON Universal Spray-on Grease with MoS₂

Strongly adherent and high-pressure resistant long-term grease with MoS₂. Ensures a smooth running of machine parts and protects from corrosion.

WEICON Spray-on Grease white

Multi-purpose sprayable grease for highly stressed parts. It contains special wear-reducing and corrosion-inhibiting additives ensuring long-lasting effectiveness.



NSF = Non-food Compounds
Registration Programme
For the type WEICON Spray-on Grease H1



Technical Sprays

Releasing and separating



WEICON Rust Loosener and Contact Spray

A 6-fold function spray: loosens rust, displaces moisture, ensures contact, inhibits corrosion, lubricates sliding surfaces and preserves metals.



WEICON Rust Shock

The “chemical wrench” frees up rusted threads within seconds combining chill effect and capillary properties. Free of mineral oil, silicone and grease; without leaving residues.



WEICON Welding Protection Spray*

– silicone-free –



Prevents the adhesion of weld spatter to gas nozzles and work-pieces without affecting the quality of the weld seam.

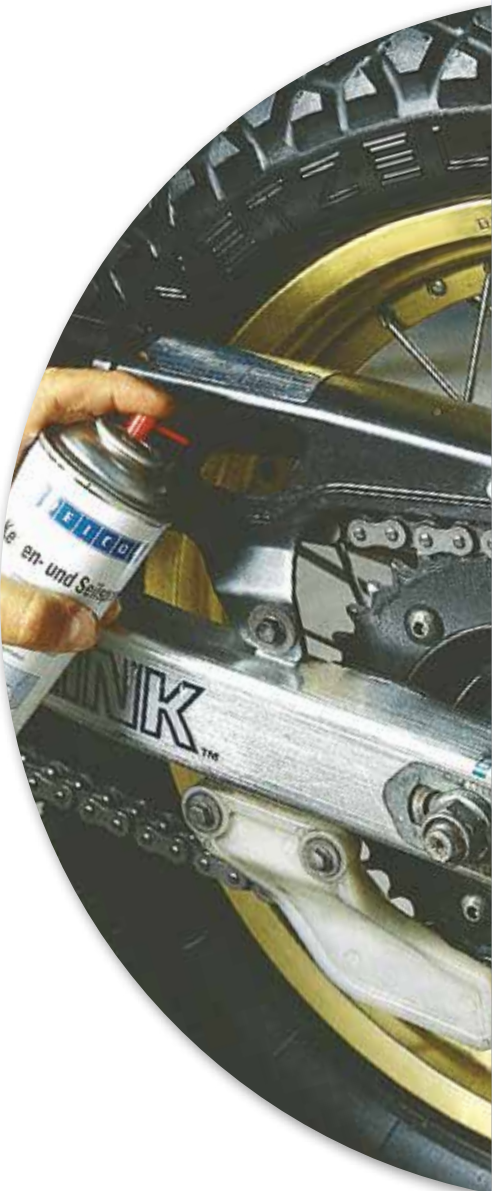
* Tested by the Welding Instructional Institute in Hannover/Germany



WEICON Alu Grinding Protection

When grinding aluminium or other non-ferrous metals and their alloys, the pores of the abrasive disc often get loaded or glazed due to the low hardness of these metals.

The use of Alu Grinding Protection avoids such a loading of the disc, and the pores of the grinding media remain open. This leads to an improvement of the grinding performance of up to 350%.



Technical Sprays

Releasing and separating



WEICON Mould Release Agent

Prevents the adhesion (e.g. of WEICON Plastic Metal) to plastics, moulds, metals and tools due to its high sliding effect. Silicone-free.



WEICON Label Remover

Removes paper labels and residues of acrylate- and caoutchouc-based pressure-sensitive adhesives from most surfaces, e.g. glass, metals, wood, foils and plastics.

WEICON Chewing Gum



Remover

Removes even old chewing gum or modelling clay residues.

When sprayed on with WEICON Chewing Gum Remover, they will be frozen and can be detached immediately and without damaging textiles or floor coatings.



WEICON Contact Spray

Dispels moisture from electrical contacts, prevents leakage current and voltage loss and keeps contacts, fuses, cable connections, etc. free of oxidation and sulphide deposits.



Technical Sprays

Protection and Care



WEICON Stainless Steel Care Spray

Formulated to particularly serve as an antistatic cleaning and preserving agent for mat and polished stainless steel surfaces.

WEICON Metal-Fluid Universal metal care

New and highly-effective, wax-based product for indoor care, protection and cleaning of mat and polished metal surfaces, e. g. stainless steel, aluminium, chrome, nonferrous heavy metal etc.

Also suitable for ceramics, wood, glass and plastics.



WEICON Cockpit Spray

Cockpit Spray creates a durable, easy-to-care and dust-repellent silky shine. Intensively cleans and maintains all plastic surfaces and imitation leather. To brighten up and renew colours. Cockpit-Spray prevents bleaching and keeps synthetic materials elastic.

WEICON Hand Protective Foam

Protects against harmful and irritant ingredients as in aggressive chemical substances, e. g. acids, lyes, oils, tar, bitumen, ink, lacquers, paints and pigments, cement, lime, soot, glues and detergents (e. g. washing and cleaning agents).

The addition of liposomes helps to improve the moisture of the skin and to reduce its roughness.



NSF = Non-food Compounds
Registration Programme
For the type: Metal-Fluid



WEICON Adhesive Spray

Universal in use. For bonding light materials to themselves and among each other. The spray can is equipped with a special valve that allows an either horizontal or vertical stream. Temperature resistant from -20°C (-4°F) to $+65^{\circ}\text{C}$ ($+149^{\circ}\text{F}$).



WEICON Adhesive Spray

– extra strong –

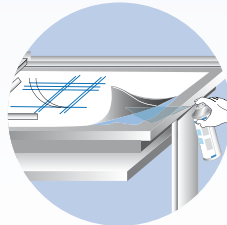
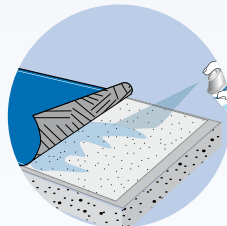
Especially developed for permanent and extra strong bonding of rough and uneven surfaces. A special valve allows small, medium or large adhesive quantities to be sprayed. Temperature resistant from -20°C (-4°F) to $+80^{\circ}\text{C}$ ($+176^{\circ}\text{F}$).



WEICON Adhesive Spray

– for detachable joints –

Clear and permanently tacky adhesive from the aerosol can on the basis of synthetic elastomers. For detachable and adjustable joints. Adhesive Spray neither strikes through nor leaves a wavy surface when working with thin materials. Temperature resistant from -20°C (-4°F) to $+70^{\circ}\text{C}$ ($+158^{\circ}\text{F}$).





WEICON Smoke Detector Test Spray

New

Optical and photoelectrical smoke detectors can be tested in a quick and safe way, without the need of additional testing instruments.

Ideal for industrial plants, public facilities and private households.

In many countries, like Australia, Canada, Germany, Great Britain, Norway, Sweden or the USA, the installation of smoke detectors is a legal requirement.

WEICON Smoke Detector Test Spray is NOT smoke in a can - it is an aerosol/atomised spray.

WEICON Freeze-Spray

Suitable for a variety of applications, e.g. fault-finding in electronics or, in general, as repair and maintenance product in many industrial sectors.

Freeze Spray quickly cools parts down to -45°C (-49°F) and allows pinpointed chilling of even the smallest parts. It is non-conductive and suitable for any material (except plastic).

WEICON Starter Spray

New

The perfect starting aid for all combustion engines. The special combination of active ingredients enables reliable cold starting.

WEICON Starter Spray is ideal at low temperatures, in damp weather or after longer downtimes of the engine. The product is gentle to both battery and engine and prevents the formation of ice at the carburettor.

WEICON Leak Detection Spray



For the fast, comfortable and reliable location of leaks (cracks or porous spots) in pressurized pipes.

Leak Detection Spray is non-flammable, anti-corrosive, kind to the skin and DIN-DVGW-tested (certificate NG 5170 B50303).



Technical Liquids

environmentally-friendly
economical
effective



WEICON Technical Liquids

Many WEICON Technical Sprays are alternatively available as liquids in canisters of 5, 10 and 30 litres.



Technical Liquids may be applied from the refillable pressurized-air spray can WSD 400, the Pump Dispenser WPS 1500 or the Pump Dispenser „Special“, thus providing an economical and ecological contribution to maintenance work.



WEICON Workshop Cleaner

Cleans and degreases all metals, plastics, rubbers, glass, ceramics and wood. Powerfully removes grease, oil, resin, soot, wax, nicotine, insect dirt, bitumen and tar splashes.

Workshop Cleaner is free of solvents and phosphates, compatible with oil separators (ÖNORM B5105) and biodegradable according to EU regulations.

With appropriate use, Workshop Cleaner complies with the requirements of the German



law concerning the handling of foodstuff and the German Decree on Consumer Goods.

It is highly concentrated and can be diluted with water on a ratio of 1:40 (max).



Technical Liquids

environmentally-friendly
economical
effective

WEICON
Pump-Dispenser
„Special“



WEICON Pressurized-Air Spray Can WSD 400

The use of the pressurized-air spray can for WEICON Technical Liquids offers a lot of advantages:

- easy to handle
- practical for workshop use
- economical due to the use of liquids in bulk
- environmentally friendly thanks to reusability
- safe due to the non-flammable propellant (compressed air!)

WEICON Pump-Dispenser WPS 1500

WPS 1500 is a refillable pump dispenser that can be used with many WEICON Technical Liquids.

The building-up pressure in the fluid container is achieved by pumping pure air with the pump rod.

An integrated security valve opens automatically as soon as the allowed pressure (max 4 bar) has been exceeded.





Metal Pigment Coatings

permanent
abrasion proof
weather resistant

WEICON Brushable Liquid Zinc Paint

Colour shade: Zinc-grey

Coating with which metallic substrates are actively protected against corrosion.



WEICON 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.

WEICON Brushable Liquid Zinc Coating

Colour shade: Galvanized

Provides active protection against corrosion for all metallic surfaces and is available in a colour shade matched to the galvanization. In the case of WEICON Brushable Liquid Zinc Coating, flaky metal pigments (flakes) settle parallel to the surface in several, spatially displaced layers on the substrate (shingle effect).

WEICON Aluminium Paint

Can be used universally on all metallic surfaces. It offers good protection against corrosion and is also used to touch up components.

Upon contact with moisture, aluminium pigments form a dense, almost impermeable oxide layer on the surface.

WEICON Stainless Steel Paint

Contains stainless steel pigments of the highest purity and is used to protect against corrosion and improve the looks of metallic and non-metallic components.

The protective effect is achieved through the 'flake' arrangement of the stainless steel pigments and their particular hardness.



High-performance assembly
pastes and sprays

Anti-Seize

separating
protecting
high-temperature
resistant



WEICON Anti-Seize

Corrosion protector and high-performance assembly paste or spray.

Due to its special formulation and most finely ground solid lubricants, this product fills all irregularities in the surface and effectively protects against seizure, abrasion, pitting and fretting corrosion.

WEICON Anti-Seize withstands high-pressure loads (230 N/mm²) and is temperature resistant from -180°C (-292°F) up to +1,200°C (+ 2,192°F).

WEICON Copper Paste

Protecting, separating and lubricating agent for highly stressed parts, used as assembly lubricant for threaded joints and sliding surfaces of all kinds. Even with high temperatures and corrosive atmospheres, fretting corrosion and seizing is prevented efficiently.

The strongly-adhering paste consists of special additives and a combination of solid lubricants made of graphite and copper particles. This ensures low friction values in threaded joints and excellent separating characteristics.

WEICON Anti-Seize "High-Tech"

White, metal-free* corrosion protection and high-performance assembly paste or spray. Prevents electrolytic corrosion ("cold welding") between metals and is temperature resistant up to +1,400°C (+ 2,552°F).

Anti-Seize "High-Tech" is especially suitable for assembly work where the use of metal-containing compounds is not wanted for optical reasons, where nickel-containing products are prohibited for health reasons and where copper-containing products are prohibited for electro-chemical reasons.

*Contains under 0,1%



New



NSF = Non-food Compounds
Registration Programme
For the type WEICON Anti-Seize
„High Tech“

High-performance greases

Allround Lubricant

lubricating
separating
protecting



WEICON Allround-Lubricant High-performance greases

Even in the present “high-tech age”, problems due to friction and wear are a matter of course in a lot of industrial sectors.

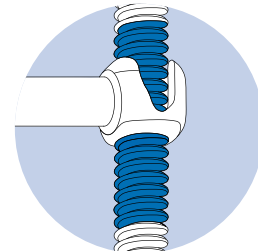
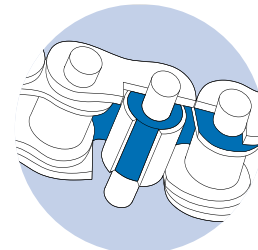
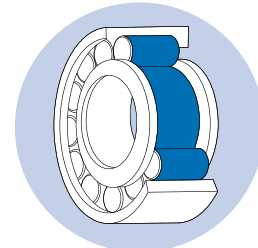
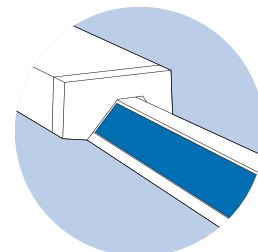
Extensive repairs, longer downtimes, shorter maintenance intervals and lower serviceable lives of plant and equipment are the consequence and cause enormous costs each year.

Modern high-performance lubricants, which meet the constantly increasing demands placed on plant and equipment, are thus increasingly gaining in significance.

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



High-performance greases

Allround-Lubricant

lubricating
separating
protecting



Type AL-M with MoS₂

Strong-bonding and high pressure resistant long-life grease with MoS₂. Friction and wear are reduced for a long time.

Colour: black
Temperature range:
-20°C (-4°F) to +120°C (+248°F)

Type AL-W

Special lubricant and corrosion protection, also for underwater applications.

Effective protection against aggressive liquids (e.g. salt water, sewage water) in maritime environments and in wet plants.

Colour: beige
Temperature range:
-25°C (-13°F) to +80°C (+176°F)

Type AL-H

Odourless and tasteless high-temperature grease for the foodstuffs technology.

Colour: yellowish-white
Temperature range:
-40°C (-40°F) to +160°C (+320°F)

Type AL-F

Allround high-performance grease for lubricating rolling and sliding bearings and for all grease lubrication points, also in the foodstuffs industry.

Colour: white
Temperature range:
-30°C (-22°F) to +120°C (+248°F)

Type AL-T

Allround high-temperature grease for the long-term lubrication of rolling and sliding bearings at all sliding speeds permissible for grease lubrication.

Colour: dark brown
Temperature range:
-25°C (-13°F) to +190°C (+374°F)
briefly up to +200°C (+392°F)



NSF = Non-food Compounds
Registration Programme
For the types: AL-H und AL-F



Off-Shore

These projects are carried out in cooperation with our partner, company Willteco from the Netherlands.

www.willteco.nl

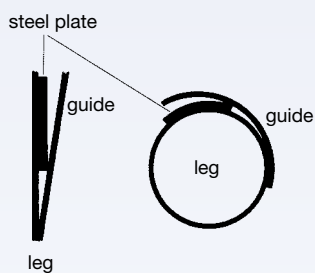
Securing of the transport of an oilrig with WEICON Plastic Metal RFC, a specially developed type for extreme requirements in the off-shore sector.

1,500 – 2,000 kg of WEICON Plastic Metal RFC are used for each transport job.



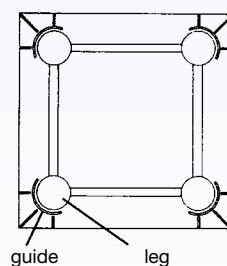
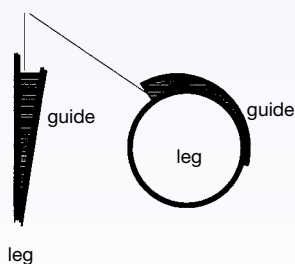
WILLTÉCO B.V.
TECHNICAL TRADE & SERVICE

previous solution:

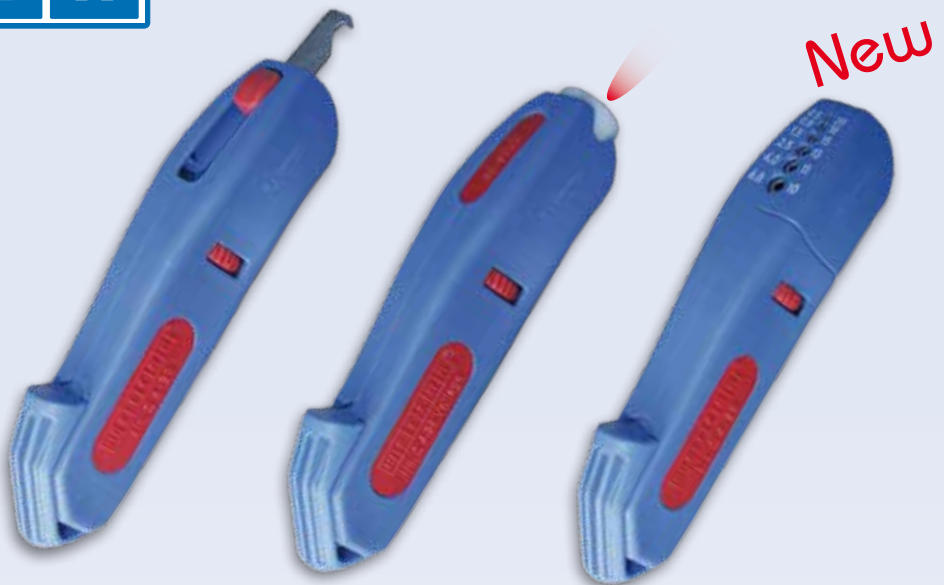


current solution:

Filling with WEICON R.F.C.



Cable Strippers



WEICON Cable Stripper S 4 – 28

A compact and safe solution on the highest quality level, made of highly resistant synthetic fiberglass material.

1. Adjustments:

No damage of the inner conductors occurs due to the infinitely variable adjustment of the cutting depth. It can be handled easily and precisely with the adjusting wheel.

2. Circular – longitudinal cut

Both circular and longitudinal cuts are possible due to a self-turning stripping blade.

3. Application

Accurate, fast and safe stripping of all common round cables of 4 – 28 mm Ø.

4. Additional Blade

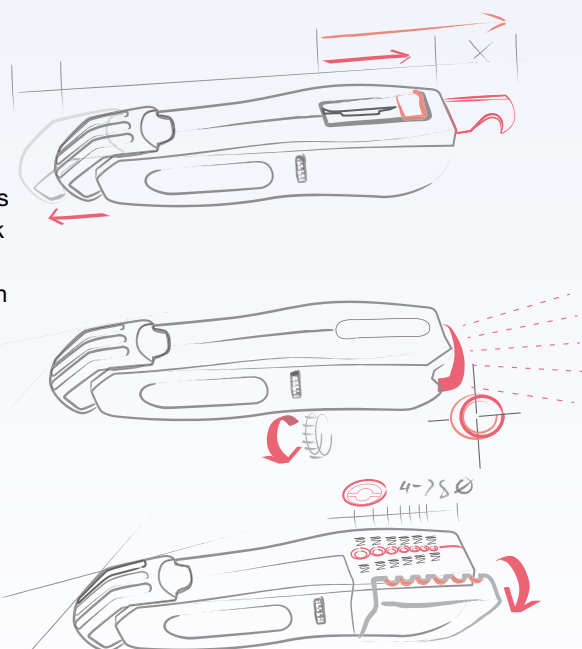
This is the first cable stripper of its kind which has an additional hook blade that can steadily jut out or be immersed into the tool and then be fixed in both positions due to reasons of operational safety. This is a new safety standard in the domain of "cable strippers".

WEICON Cable Stripper S 4 – 28 Voltage

1. to 3. see WEICON Cable Stripper S 4 – 28.

4. Voltage tester:

The built-in voltage field sensor enables a safe detection of alternating voltages.



Cable Strippers



WEICON Cable Stripper S 4 – 28 Multi **New**

1. to 3. see WEICON Cable Stripper S 4 – 28.
4. Stripping of conductors:
For all common flexible and massive conductors with diameters of 0.5 mm², 0.75 mm², 1.5 mm², 2.5 mm², 4.0 mm² and 6.0 mm².



WEICON Cable Strippers

Special tools for precise, quick and safe stripping of all common round cables of 4 – 50 mm diameter.

The swivel-blade automatically turns from circular to longitudinal cut. No damage of the inner conductors can occur due to the infinitely variable adjustment of the cutting depth.

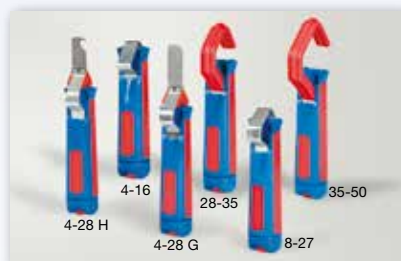


Now with slip-proof handle made of TPE

WEICON Cable Stripper H.D. No. 1000

For heavy-duty stripping of thick cables and cutting of multi-sheeted cables.

The shoe-shaped blade tip limits the cutting depth and prevents damage of the conductors. The H.D. No. 1000 has been approved by the German VDE (Association of German Electrical Engineers) for works on "hot" lines up to 1,000V.



Types:	Ø	
No. 4 - 16	4 - 16 mm	
No. S 4 - 28	4 - 28 mm	
No. 4 - 28 H	4 - 28 mm	hook knife
No. 4 - 28 G	4 - 28 mm	straight knife
No. 8 - 27	8 - 28 mm	
No. 28 - 35	28 - 35 mm	
No. 35 - 50	35 - 50 mm	

Stripping Tools

Cable Strippers



WEICON Coax-Stripper No. 2

Ideal for two- or three-step stripping of coaxial cables of 4.8 – 7.5 mm outer diameter. Also strips flexible cables such as 3 x 0.75 mm², 10 mm² and 16 mm².



WEICON Combi-Coax No. 3

This new development allows the stripping of all common coaxial cables (e.g. antenna and transmission cables) of 4.8 to 7.5 mm outer Ø. Also strips flexible cables such as 3 x 0.75 mm², 10 mm² and 16 mm².

An adjustment of the cutting depth is not necessary. The new ergonomic handle form allows an even faster and more convenient stripping. Combi-Coax No. 3 is equipped with an easily accessible built-in side cutter (for stranded conductors up to 6.0 mm² and solid conductors up to 4.0 mm²).



WEICON Round Cable Stripper No. 13

Flush stripping of insulation jackets in switch cabinets, junction or distribution boxes.

For round cables with diameters of 8 – 13 mm. The ergonomic tool design provides a sure grip and safe handling.



WEICON Mini-Solar No. 3

For stripping of all common solar cables of 1.5 - 6.0 mm outer diameter.



Multi-purpose Strippers



WEICON Multi-Stripper No. 400

For cable and wire stripping of all common round cables of 8 – 13 mm Ø.

Allows circular and longitudinal stripping as well as flush stripping in hard-to-reach areas. For all common stranded and solid conductors up to 6.0 mm².

With easily accessible built-in side cutter.

WEICON Duo-Crimp No. 300

Stripping and crimping with only one tool. Easy stripping of conductors from 0.5 – 6.0 mm².

The insulation is stripped off at a length of 5 mm allowing proper twisting of stranded wire ends.

Two crimping ranges are offered: 0.5 – 2.5 mm² and 4.0 – 6.0 mm².

WEICON Stripper No. 100

Multi-purpose tool for stripping cable jackets, stranded or solid conductors and coaxial cables.

WEICON Mini-Duo No.150

Fully insulated automatic wire stripper for all common stranded and solid conductors of 0.5 – 6.0 mm².

With easily accessible built-in side cutter (for stranded conductors up to 6.0 mm² and solid conductors up to 4.0 mm²).

WEICON Duo-Stripper No. 200

Two tools in one – combines the functions of cable and wire stripping. Precise and safe stripping of all common round cables with diameters of 4 – 28 mm Ø.

The special scanning system adjusts automatically to the wire diameter and allows quick and accurate wire stripping in a range of 0.5 – 6.0 mm².



Stripping Tools

Wire Strippers



WEICON Wire Stripper No. 7 Solar

Automatic wire stripper for all common round cables used in solar engineering. The precise adjustment (5-fold) allows an easy removal of the multiple insulation layers of solar cables.

WEICON Wire Stripper No. 5

A fully insulated wire stripper that automatically adjusts to the wire diameter. For stranded and solid conductors of 0.2 – 6.0 mm². Includes an adjustable length stop of 5 – 12 mm and a built-in side cutter (max. 2 mm Ø).



Built-in side cutter up to max. 3 mm Ø.

Optical length scale: 8 – 24 mm, 5/16 – 1 inch.

Working range: Cable and wire stripping of all common flexible cables in solar engineering from 1.5 mm² – 6.0 mm² (15-9 AWG).



WEICON Wire Stripper No. 6

Fully insulated automatic wire stripper for all common stranded and solid conductors of 0.2 to 6.0 mm².

Adjustable length stop of 5 – 12 mm (removable if required). Approved according to VDE norm for works on live wires up to 1,000 V.

1000 V
IEC 60900:2004



Wire Strippers



WEICON Wire Strippers No. 7-R + 7-F

The special tracing system adjusts automatically to the wire diameter and allows quick and accurate cable and wire stripping.



A precise adjustment (5-fold) to various cable types and diameters is possible.

Optical length scale 8 – 24 mm, 5/16 – 1 inch. Easily accessible built-in side cutter up to max. 3 mm Ø.



WEICON Wire Stripper No. 7-R

Automatic wire stripper for all common round and flat cables.

Working range round cables:
Cable and wire stripping of flexible cables from 0.5 mm² to 16.0 mm² (20 – 6 AWG). Solid conductors from 0.5 mm² to 10 mm² (20 – 8 AWG).

WEICON Wire Stripper No. 7-F

For the work with mainly flat cables as commonly used e. g. in USA, GB and Japan.

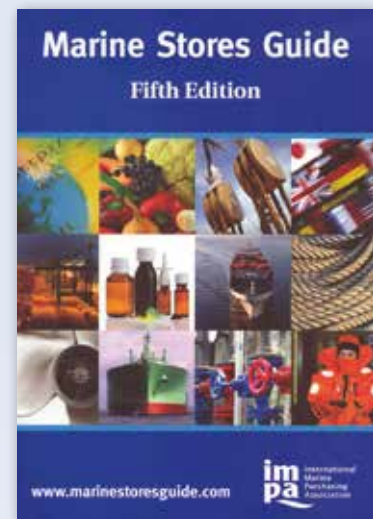
Working range flat cables:
Cable and wire stripping of two- or three-core flat cables with PVC insulation from 0.75 mm² to 4.0 mm².



References/Certificates

WEICON Top Quality Products

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, Flex 310 M® Classic, Flex 310 M® Stainless Steel, Flex+bond®, Aqua-Flex and Speed-Flex® as adhesives in the foodstuff technology.

NSF

Certificates for WEICON Bio-Fluid, WEICON Anti-Seize ASW und WEICON Allround Lubricant AL-H, WEICON Spray-on Grease H-1 for use in the foodstuff industry – with direct contact to food according to USDA H1.

NSF

Certificates for WEICON Metal-Fluid (A7, C1) and WEICON Allround-Lubricant AL-F (USDA H2) for use in the foodstuff industry.

NSF

Certificates for WEICON Repair Stick Steel, Copper, Stainless Steel, Plastic and for WEICONLOCK types AN 301-38, AN 301-43, AN 301-48, AN 301-70 and AN 301-72. NSF/ANSI according to standard 61.

SLV

WEICON Welding Protection Spray has successfully been tested as a non-stick primer against weld spatter.

German Federal Award (year 2000)

German Federal Award (year 2000) for WEICON Duo-Crimp No. 300 as an outstanding innovative achievement.



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.

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.

Germanischer Lloyd

Approval certificates for WEICON Plastic Metals A and SF for repairs on vessels.

Gazmer

Certificate on the suitability of WEICONLOCK® types AN 302-43 and AN 305-77 as well as for WEICON Thread Sealing Cord DF 175 for the use on gas-operated installations and supply tubes.

References/Certificates

WEICON Top Quality Products

certified for quality,
technology and safety



Corrosion protection according to DIN ISO 7120. Certificate of TÜV NORD testifying the product characteristics.

TZW

Technologiezentrum Wasser
Karlsruhe
Prüfstelle Wasser



Sales Displays

Sales Displays



















Equipment proposal. Supply of the displays is without products.

Sales Displays




Equipment proposal. Supply of the displays is without products.

News Overview

Product	Description	Page
Easy-Mix PU-90 	Basis Polyurethane. Extremely fast curing and high-strength structural adhesive with very good adhesion on plastics, metals and many other materials. High viscosity, suitable for vertical surfaces. Pot life: approx. 90 seconds.	15
Easy-Mix PU-240 	Basis Polyurethane. Very fast curing and high-strength structural adhesive with very good adhesion on plastics, metals and many other materials. High viscosity, suitable for vertical surfaces. Pot life: approx. 4 minutes.	15
GMK 2410 	Solvent-based Polychloroprene (CR) contact adhesive used for strong and flexible full-surface bonding of rubber to rubber and rubber to metal. GMK 2410 also bonds cellular rubber (e. g. neoprene), leather, felt, insulating material, textiles, wood, and many plastics. After curing, the joint is resistant to humidity.	17
WEICONLOCK® White Line 	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.	21
Stainless Steel Spray "bright grade" 	Corrosion protection, coating and repair material for stainless steel surfaces. Provides a treated stainless steel look. Basis: Stainless steel pigments and acrylic resin.	34
Electro Contact Cleaner 	Cleaning and degreasing of electrotechnical or mechanical parts, like e. g. electric machines, measuring instruments, balances, switches or sensors. Also ideal for all electric connections, contacts, relays and switchboard plants.	39
Citrus Cleaner 	Cleaner and degreaser on the basis of citrus essences. Removes quickly adhesive residues, oils, greases, resin, tar, lubricants, rubber residues as well as residues of lead, felt and ball pens.	39
Visor Cleaner 	The ideal product for the cleaning and care of sensitive plastic and glass surfaces, e. g. visors, safety goggles, welding face shields, protection caps, safety glass etc.	39
Anti-Friction Spray MoS₂ 	Grease-free dry lubricant with high pressure and temperature resistance. The layer repels dust, dirt and water, resists oils, greases and many chemicals and adheres to metals, plastics and wood surfaces.	41
Belt Dressing Spray 	Transparent belt coating based on synthetic elastomers for highly stressed drive belts of different kinds. Some examples are V-belts, link belts, drive belts, flat belts, round belts, toothed belts, transmission belts, ripped belts or conveyor belts	42
Smoke Detector Test Spray 	For secure testing of optical or photoelectrical smoke detectors.	48
Starter Spray 	The perfect starting aid for all combustion engines. The special combination of active ingredients enables reliable cold starting. Ideal at low temperatures, in damp weather or after longer downtimes of the engine.	48
AS 500 P 	Anti-Seize is used as corrosion protection and high-performance assembly paste for statically high-stressed screw connections and assembly parts as well as for slowly rotating installations in the high temperature range.	52
ASW 500 P 	The good separating properties of this Anti-Seize type are especially effective for high alloyed steels as well as for different kinds of metals.	52
KP 500 P 	Copper Paste is a protecting, separating and lubricating agent for highly stressed parts, used as assembly lubricant for threaded joints and sliding surfaces of all kinds. The strongly-adhering paste consists of special additives and a combination of solid lubricants made of graphite and copper particles.	52
Cable Stripper No. S 4 - 28 Multi 	New type in the line of WEICON Cable Strippers S 4 –28 with the additional function of "Stripping of Conductors". For all common flexible and massive conductors with diameters of 0.5 mm ² , 0.75 mm ² , 1.5 mm ² , 2.5 mm ² , 4.0 mm ² and 6.0 mm ² .	57

Pre-selection chart for Adhesives

	Epoxy Resins	Epoxy Adhesives	Construction Adhesives	Contact Adhesive	WEICONLOCK®	Contact	Elastic Adhesives	Adhesive Sprays		
	Plastic Metal Epoxy Resin Putty Repair Sticks	Easy-Mix Epoxy and Fast-Metal Minute Adhesive	Methyl methacrylate RK-F family	GMK 2410 Rubber Metal Adhesive	Anaerobic Adhesives and Sealants	Cyanoacrylate Adhesives	Flex 310 M® Family Silicone Polyurethane	Adhesive Spray	Adhesive Spray -for detachable joints-	Adhesive Spray -extra strong-
	Metals (e.g. aluminium, brass, stainless steel)	+	+	+	+	+	+	+	+	+
	Hard plastics* (e.g. rigid PVC)	+	+	+	+	+2	+	+	+	+
	Carbon, fiberglass	+	+	+	-	-	+	+	+	+
	Wood	+	+	+	-	-	+	+	+	+
	Glass, ceramics	+	+	+	-	-	+	+	-	-
	Stone (e.g. marble, granite, concrete)	+	+	+	-	-	+	+	-	-
	Rubber	-	-	-	+	-	+	+	+	+
	Leather	-	-	-	+	-	+	-	+	+
Material	small 0,01 - 0,1 mm	-	+	-	+	+	-	+	+	
	medium 0,1 - 0,8 mm	+	+	+	+	+	-	-	-	
	large > 0,8 mm	+	+	+	-	-	+	-	-	
	Bonding gap									
Temperature range	up to +90°C	+	+	+	+	+	+	+	+	
	up to +130°C	+	+	+	-	+	+	+	-	
	up to +200°C	+	-	-	-	+	-	+	-	
	over +200°C	+	-	-	-	+	-	+	-	

+ 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.

Any product specifications and recommendations given herein are 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 based on our specifications and recommendations. However, our specifications and recommendations are not intended to be used as a basis for liability. The user assumes the sole responsibility for non-appropriate or other than specified applications. New York, October 2012

Technical Data

Plastic Metal

Product type	Basis	Specific Properties	Complete Packaging Sizes	WEICON Plastic Metal in non-cured condition							Max. layer thickness per application mm	Cure times in h	
				Mixing ratio (Weight %)		Pot life at 20°C/+68°F (min.)	Density of the mixture g/cm³	Viscosity of the mixture mPa.s					
				Resin	Hardener				(200 g preparation)				
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		
WEIDLING 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		
Ceramic BL	Epoxy resin mineral-filled	liquid, extremely wear resistant	0,5 kg; 2,0 kg	100 ²⁾	15	40	1,80	6.000	10	16	24		
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	2,60	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		
Product type	WEICON Plastic Metal in cured condition												
	Mean strength at +25°C (+77°F) acc. to DIN 53281-83 / ASTM D 1002						Thermoforming 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)				
WEIDLING 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 +536)				
WEICON Ceramic BL	115 (16.700)	25 (3.600)	98 (14.200)	9.000 - 9.500 (1.300 - 1.380)	88	0,020	+80 (+176)	blue	-35 to +180 (-31 to +356)				
WEICON Ceramic W	85 (12.300)	22 (3.200)	95 (13.800)	7.000 - 8.000 (1.010 - 1.160)	83	0,020	+150 (+302)	white	-35 to +200 briefly to +260 ¹⁾ (-31 to +536)				
WEICON SF	52 (7.550)	15 (2.180)	21 (3.050)	2.000 - 2.500 (290 - 360)	85	0,030	+50 (+122)	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 ¹⁾ (-31 to +536)				
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)				

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 +173°C/+338°F). After temper - curing a permanent temperature resistance of +200°C (+392°F) is reached.

²⁾ WEICON Ceramic BL is supplied with a standard hardener.

Repair Sticks

Basis:	WEICON Repair-Sticks in non-cured condition									
	Aluminium	Aqua	Concrete	Stainless steel	Wood	Plastic	Copper	Steel	Titanium	
	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:	Stick									
Supplied in:	28 g / 56 g									
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	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	70	
Density of the mixture (g/cm³):	1,6	1,9	1,9	2,0	0,9	1,6	1,9	2,0	1,9	
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 +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									
Handling strength (35% strength) aft.:	10 min.	30 min.	15 min.	10 min.	45 min.	40 min.	10 min.	10 min.	2 hrs.	
Capable of bearing mechanical loads (50% strength) aft.:	60 min.	60 min.	60 min.	60 min.	60 min.	3 hrs.	60 min.	60 min.	8 hrs.	
Final strength (100% strength) aft.:	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	36 hrs.	24 hrs.	24 hrs.	72 hrs. (24 hrs. at +65°C/+149°F)	
Pressure (DIN 53281-83) N/mm² (psi):	WEICON Repair-Sticks in cured condition									
	Aluminium	Aqua	Concrete	Stainless steel	Wood	Plastic	Copper	Steel	Titanium	
	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)	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	Steel sandblasted	Concrete	Stainless steel sandblasted	Beech sanded	PVC sanded	Copper sandblasted	Steel sandblasted	Steel sandblasted	
	4,2 N/mm² (609)	6,2 N/mm² (899)	4,8 N/mm² (696)	3,9 N/mm² (566)	6,2 N/mm² (899)	2,4 N/mm² (348)	4,8 N/mm² (696)	4,1 N/mm² (595)	5,1 N/mm² (740)	
Temperature resistance °C (°F):	-50 to +120, briefly +150 (-58 to +248, briefly +302)									
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 resistance (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

Urethanes

Composition:	WEICON Urethanes in non-cured condition			
	Urethane 45	Urethane 60	Urethane 80	
	Polyurethane			
Complete packaging sizes:	0,5 kg			
Mixing ratio (weight %): Resin/Hardener	100 : 140	100 : 100	100 : 50	
Pot life at +20°C (+68°F) min.:	1,03	1,03	1,04	
Density of the mixture g/cm³:	1,03	1,03	1,04	
Viscosity at +25°C (77°F) Resin/Hardener (mPa.s):	6.700 / 430	6.700 / 260	6.700 / 45	
Mixture viscosity at +25°C (77°F) (mPa.s):	1.000	1.200	1.350	
Cure times at +20°C (+68°F)				
Mechanical loads (50% strength) after:	12 hours			
Final strength (100%) after:	24 hours			
Tensile strength according to ISO 37 MPa (psi):	WEICON Urethanes in cured condition			
	Urethane 45	Urethane 60	Urethane 80	
	4,1 (600)	5,3 (800)	8,5 (1.200)	
Elongation at break according to ISO 37 (%):	2.400	1.400	900	
Resistance to further tearing (kN/m):	9,5	11	17	
Shore hardness A:	45	60	80	
Colour after curing:	beige	lightbrown	darkbrown	
Temperature resistance:	-60°C to +90°C (-76 to +194°F)			

PU-90 / PU-240

	PU-90	PU-240
Basis	Polyurethane	Polyurethane
Mixing ratio Resin / Hardener	1 : 1	1 : 1
Colour after curing	black	black
Density of the mixture	1,30 - 1,35 g/cm³	1,40 - 1,45 g/cm³
Pot life at +20°C (+68°F)	90 sec.	240 sec.
Handling strength (35%) after	5 min.	10 min.
Mechanical loads (50% strength) after	10 min.	30 min.
Final strength (100%) after	12 h	12 h
Adhesive gap bridging	0,1 - 4,0 mm	0,1 - 4,0 mm
on Aluminium (0,26 mm)	13 N/mm² (1.900 psi)	14 N/mm² (2.000 psi)
on Steel bright (0,26 mm)	19 N/mm² (2.800 psi)	23 N/mm² (3.300 psi)
on Stainless steel (0,26 mm)	17 N/mm² (2.500 psi)	18 N/mm² (2.600 psi)
Average E-module +20°C (+68°F)	650 - 750 N/mm² (90 - 110 ksi)	450 - 550 N/mm² (70 - 80 ksi)
Shore hardness D DIN EN ISO 868	66	68
Tensile strength ISO 527 max.	21 N/mm² (3.000 psi)	20 N/mm² (2.900 psi)
Tensile Extension ISO 527 max.	35%	31%
Temperature resistance	-55 to +125°C (-67 to +257°F)	-55 to +125°C (-67 to +257°F)
Thermoforming resistance	+65°C (+149°F)	+65°C (+149°F)
TGA decomposition temperature (Onset temp.)	+330°C (+626°F)	+336°C (+637°F)

Technical Data

Epoxy Adhesives

		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	1.55
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**:	+10°C to +30°C (+50°F to +86°F)	+10°C to +40°C (+50°F to +104°F)	+10°C to +36°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	yellow, opaque	almost colourless, glass clear	black	almost colourless, glass clear	dark-grey
Gap covering power to max.*5:		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)	9 (1.300)	10 (1.500)	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)
Average tensile shear strength as per DIN 53281-83	Shore hardness D:	65	55	65	70	65	70
	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 ¹⁵ Ω/cm	10 ¹⁵ Ω/cm	10 ¹⁵ Ω/cm	10 ¹⁵ Ω/cm	10 ¹⁵ Ω/cm	10 ¹⁵ 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 ⁻⁶ 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).

RK-1300/1500

		WEICON RK-1300/1500 in non-cured condition	
		RK-1300	RK-1500
Basis:		Methyl methacrylate	
Properties:		pasty	
Viscosity at +20°C (+68°F):	Adhesive:	21.000 mPa·s	
	Activator:	very thin liquid	
Specific weight:	Adhesive:	1,20 g/cm³	1,00 g/cm³
	Activator:	0,87 g/cm³	
Colour:	Adhesive:	beige, opaque	
	Activator:	Colourless, transparent	
Consumption depending on surface structure:	Adhesive:	180 - 300 g/m²	
	Activator:	30 - 150 g/m²	
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-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/mm² (3.600 psi)	26 N/mm² (3.800 psi)
	Steel, sand-blasted:	21 N/mm² (3.000 psi)	25 N/mm² (3.600 psi)
	Steel, galvanized:	6 N/mm² (900 psi)	4 N/mm² (600 psi)
	Stainless steel, sand-blasted:	26 N/mm² (3.800 psi)	25 N/mm² (3.600 psi)
	Brass, sand-blasted:	25 N/mm² (3.600 psi)	26 N/mm² (3.800 psi)
	Copper, sand-blasted:	26 N/mm² (3.800 psi)	19 N/mm² (2.800 psi)
	Polycarbonate, roughened:	5 N/mm² (700 psi)	8 N/mm² (1.200 psi)
	ABS, roughened:	6 N/mm² (900 psi)	6 N/mm² (900 psi)
	Hard PVC, roughened:	7 N/mm² (1.000 psi)	11 N/mm² (1.600 psi)
	Polyamide 6.6, roughened:	2 N/mm² (300 psi)	3 N/mm² (400 psi)
Temperature resistance:	8 N/mm² (1.200 psi)	7 N/mm² (1.000 psi)	7 N/mm² (1.000 psi)
	GRP (epoxy resin), roughened:	16 N/mm² (2.300 psi)	20 N/mm² (2.900 psi)
Peel resistance on aluminium:		-50°C to +130°C (-58 to +266°F), briefly (30 minutes) to +180°C (+356°F)	
Linear thermal expansion coefficient:		70 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.

RK-7000/7100

		RK-7000	RK-7100
Basis:		Methyl methacrylate	
Mixing ratio Resin / Hardener		1 : 1	
Colour after curing		cream white, milky	
Density of the mixture		0,98 - 1,02 g/cm³	
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)		20 - 25	
on plastics (0,76 mm)		GRP 9 N/mm² (1.300 psi)	
on Aluminium (0,26 mm)		PVC 17 N/mm² (2.500 psi)	
on Steel bright (0,26 mm)		21 N/mm² (3.000 psi)	
on Stainless steel (0,26 mm)		19 N/mm² (2.800 psi)	
on PMMA (0,76 mm)		17 N/mm² (2.500 psi)	
Average E-module +20°C (+68°F)		18 N/mm² (2.600 psi)	
Shore hardness D DIN EN ISO 868		1.400 - 1.700 N/mm² (200 - 250 ksi)	
Tensile strength ISO 527 max.		70	
Tensile Extension ISO 527 max.		20 N/mm² (2.900 psi)	
Temperature resistance		-55 to +125°C (-67 to +257°F)	

Easy-Mix PE-PP 45

		WEICON Easy-Mix PE-PP 45 in liquid condition	
		Methyl methacrylate	
Basis:		pasty	
Condition/Nature:		double cartridge	
Supplied in:		38 ml	
Content:		10 : 1	
Mixing proportion by volume resin / hardener:		2 - 3 minutes	
Pot life with 10 ml material and at +20°C (+68°F):		1,07 g/cm³	
Density of the mixture:		45.000 mPa·s	
Viscosity of the mixture at +20°C (+68°F) Brookfield:		Processing, optimal:	
Temperature:		curing:	
Colour before curing:		+20°C to +25°C (+68 to +77°F)	
Bonding gap:		+15°C to +70°C (+59 to +158°F)	
Cure time at +20°C (+68°F)	Processing, optimum:	colourless, translucent	
	Curing	0,2 - 0,3 mm	
	Handling strength (35% strength) after:	1,0 mm	
	Mechanical loads (50% strength) after:	2-3 hours (PP-PP)	
	Final strength (100% strength) after:	6 hours (Alu-Alu)	
		6 hours (PP-PP)	
		24 hours (Alu-Alu)	
		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	
Colour after curing:	Tensile strength:	13 MPa.S	
	Max. expansion:	5,3 %	
		yellowish, transparent	
	ABS:	10,5 N/mm² (1.500 psi)	
	GRK:	17,0 N/mm² (2.470 psi)	
	GRK Gelcoat:	10,1 N/mm² (1.470 psi)	
	PA 6.6 (30% glass fibre particles):	5,7 N/mm² (830 psi)	
	PC:	5,9 N/mm² (860 psi)	
	PE HD (high density):	7,4 N/mm² (1.070 psi)	
	PE LD (low density):	2,8 N/mm² (410 psi)	
	PE UHMW (ultrahigh molecular):	5,2 N/mm² (750 psi)	
	PMMA:	6,6 N/mm² (960 psi)	
	PP:	7,6 N/mm² (1.100 psi)	
	PS:	5,3 N/mm² (770 psi)	
	PVC:	14,1 N/mm² (2.050 psi)	
	PTFE:	- N/mm²	
	Aluminium:	15,7 N/mm² (2.280 psi)	
	Glass:	4,5 N/mm² (650 psi)	
	Copper:	15,7 N/mm² (2.280 psi)	
	Bright steel:	17,2 N/mm² (2.490 psi)	
	Steel, slightly oiled:	14,8 N/mm² (2.150 psi)	
	VA steel:	15,9 N/mm² (2.300 psi)	
	PEI:	2,9 N/mm²	
Peel strength at +20°C (+68°F) (HDPE):		-50°C to +80°C (-58 to +176°F)	
Temperature resistance:		+35°C (+95°F)	
Thermoforming resistance:		125 x 10 ⁻⁶ K ⁻¹	
Coefficient of thermal expansion:		below T _g (<+35°C/+95°F):	
		above T _g (>+35°C/+95°F):	





Technical Data

WEICONLOCK®

Type-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.
AN 301-43	Threadlocking, DVGW ¹ /NSF approval	medium strength, higher viscosity	blue	M 36	2.000 - 8.000 mt	0,25
AN 301-70	Threadlocking, NSF approval	high strength, medium viscosity	green	M 25	500 - 900 nt	0,15
AN 301-72	Pipe and flange sealing (with PTFE), DVGW ¹ /NSF approval	medium strength, high viscosity	white	M 80 R 3"	15.000 - 60.000 ht	0,30
AN 301-38	Retaining cylindrical assemblies, NSF approval	high strength, medium viscosity	green	M 36	2.000 - 3.000 mt	0,20
AN 301-48	Retaining cylindrical assemblies, DVGW ¹ /NSF approval	high strength, medium viscosity	green	M 20 R ¾"	450 - 650 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 ¹ -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 ¹ -approval	medium strength, higher viscosity	blue	M 36	2.000 - 7.000 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	solid, higher viscosity	red	M 36	1.500 - 6.500 mt	0,25
AN 302-70	Locking of threads and stud bolts, DVGW ¹ -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 ¹ -approval	high strength, higher viscosity	red	M 56 R 1½"	6.000 - 15.000 mt	0,30
AN 302-90	Threadlocking for locking after assembly	high strength, extrem low viscosity	green	M 5 kapillar	10 - 20	0,07
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 ¹ -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 302-90	Sealing of threaded pipes and fittings for passive materials	high strength, higher viscosity	green	M 36	3.000 - 6.000 mt	0,20
AN 305-11	Sealing of threaded pipes and fittings, DVGW ¹ -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 ¹ -approval	medium strength, medium viscosity	brown	M 20 R ¾"	500 nt	0,15
AN 305-72	Pipe and flange sealing (with PTFE) DVGW ¹ /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 ¹ /AGA ⁴ -approval	medium strength, high viscosity	yellow	M 80 R 3"	24.000 - 70.000 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
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 ¹ /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, high 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
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 305-72	Pipe and flange sealing (with PTFE) DVGW ¹ 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

Contact

WEICON Contact in liquid form

	VA 20	VA 8312	VA 8406	VA 100	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																	
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	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	0,20	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	1,07	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 ¹ in seconds	Aluminium ¹⁾	30-60	30-60	2-10	30-60	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
	Nora Test rubber ²⁾	2-15	2-10	< 5	3-20	< 5	2-10	5-30	20-30	5-10	25-60	5-10	20-40	3-20	10-60	5-30	10-60	10-90
	Rigid PVC ³⁾	5-60	5-30	2-10	10-60	2-10	10-60	10-120	40-80	25-50	25-100	5-10	40-80	10-30	20-150	10-120	30-120	30-150
Final strength in hours	24																	

WEICON Contact in cured state

		VA 20	VA 8312	VA 8406	VA 100	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)	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)	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)	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)	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)	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 +80°C (-58 to +176°F) (briefly to +100°C/+212°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 (kΩ 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

WEICONLOCK®

Technical Data

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
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)
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)
5 - 10	4 - 6	5 - 7 (725 - 1.015 psi)	15 - 30	6 - 12	-60°C to +200°C (-76°F to +392°F)
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)
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)
7 - 10	3 - 6	4 - 7 (580 - 1.015 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
4 - 8	2 - 4	3 - 5 (435 - 725 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
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)
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)
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)
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)
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)
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)
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)
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)
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)
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)
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)
5 - 8	2 - 4	3 - 5 (435 - 725 psi)	15 - 30	3 - 6	-60°C to +150°C (-76°F to +302°F)
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)
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)
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)
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)
7 - 10	2 - 4	4 - 6 (580 - 870 psi)	20 - 40	5 - 10	-60°C to +150°C (-76°F to +302°F)
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)
7 - 10	2 - 4	4 - 6 (580 - 870 psi)	20 - 40	5 - 10	-60°C to +150°C (-76°F to +302°F)
18 - 22	10 - 14	6 - 13 (870 - 1.885 psi)	15 - 30	1 - 3	-60°C to +150°C (-76°F to +302°F)
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)
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)
25 - 30	50 - 60	15 - 18 (2.175 - 2.610 psi)	10 - 20	2 - 4	-60°C to +150°C (-76°F to +302°F)
25 - 30	50 - 60	15 - 18 (2.175 - 2.610 psi)	10 - 20	2 - 4	-60°C to +150°C (-76°F to +302°F)
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)
28 - 36	40 - 55	15 - 25 (2.175 - 3.625 psi)	20 - 40	approx. 24	-60°C to +200°C (-76°F to +392°F)
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)
35 - 45	50 - 70	25 - 30 (3.625 - 4.350 psi)	approx. 5	1 - 3	-60°C to +150°C (-76°F to +302°F)
20 - 30	30 - 40	15 - 30 (2.175 - 4.350 psi)	approx. 240	approx. 24	-60°C to +200°C (-76°F to +392°F)
12 - 15	17 - 22	8 - 12 (1.160 - 1.740 psi)	10 - 20	3 - 6	-60°C to +150°C (-76°F to +302°F)
30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	approx. 5	2 - 4	-60°C to +175°C (-76°F to +347°F)
35 - 45	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C to +150°C (-76°F to +302°F)
35 - 45	10 - 20	25 - 30 (3.625 - 4.350 psi)	15 - 30	3 - 6	-60°C to +150°C (-76°F to +302°F)
18 - 25	15 - 25	5 - 10 (725 - 1.450 psi)	15 - 30	6 - 12	-60°C to +200°C (-76°F to +392°F)
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)
7 - 10	2 - 4	4 - 6 (580 - 870 psi)	20 - 40	5 - 10	-60°C to +150°C (-76°F to +302°F)
6 - 10	2 - 5	4 - 6 (580 - 870 psi)	20 - 40	approx. 12	-60°C to +150°C (-76°F to +302°F)
16 - 24	5 - 10	5 - 10 (725 - 1.450 psi)	15 - 30	approx. 12	-60°C to +180°C (-76°F to +356°F)

WEICONLOCK (Cured)	WEICONLOCK (Liquid)
<ul style="list-style-type: none"> Admissible surface pressure for high-strength types E-Modul 1) for high-strength types 2) for low-strength types Coefficient of elongation 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 0.25 mm approx. 1,400 N/mm² (200,000 PSI) approx. 280 N/mm² (40,000 PSI) approx. 8 · 10⁻³ mm/mm approx. 10³ N/mm · cm approx. 4 approx. 10 kV/mm from approx. +250°C (+482°F) mineral oil, fats, organic solvents, refrigerants, gases 	<ul style="list-style-type: none"> ca. 1.1 g/cm³ < 7 > +100°C (+212°F) < 0.1 Torr in acetone and approx. 12 month in original package

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

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

³ BAM Approval (Bundesanstalt für Materialforschung und -prüfung BAM Tgb.-No. 4045/96 - II 2402 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 users. They have been compiled with greatest care but we take no warranty of any kind and accept no liability for the results obtained.

* It = low thixotrope
mt = medium thixotrope
ht = high thixotrope

Plast-o-Seal

Colour	blue (fluorescent)
For threaded joints up to	---
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)



Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm x 5.71 = pli
N/mm² x 145 = psi

MPa x 145 = psi
MPa x 0.145 = KSI
mPa·s = cP
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
kg x 2.2046 = lb



Technical Data

Elastic Adhesives and Sealants

	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+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 grey 7000 black 9004	transparent/ crystal-clear
Content/Container:	310 ml cartridge	290 ml cartridge				85 ml tube	
Density g/cm³:	1,44	1,06	1,41	1,62	1,06	1,44	1,06
Viscosity:	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						
Skin-over time (minutes):*3	25	10	10	10	10	25	10
Cure speed:*3	2-3 mm in the first 24 hours						
Volume change (DIN 52451) %:*3	-1	-3	---	-2	-3	-1	-3
Gap filling up to max. mm:	5	5	---	10	5	5	5
Gap width up to max. mm:	25	25	---	30	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	42	40
Elongation at break (DIN 53504 / ASTM D 412) %:	650	300	400	600	250	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)	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)	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)	20 N/mm² (2.900 psi)	19 N/mm² (2.760 psi)
Movement capacity max. %:	15	20	---	20	20	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)	-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)						
Building material category (DIN 4102):	B 2						
Possible primers:							

	WEICON Adhesives and Sealants in non-cured condition				
	Aqua-Flex	Solar-Flex®	Speed-Flex®	Flex 310	Fast-Bond
Basis:	One-component MS polymer				
RAL-Colour ¹⁾ :	white 9003 grey 7000 black 9004	white 9003 grey 7000	white 9003 grey 7000	white 9003 grey 7001 black 9005	beige 9010
Content/Container:	310 ml cartridge	290 ml cartridge	310 ml cartridge	300 ml cartridge	310 ml cartridge
Density g/cm³:	1,44	1,62	1,60	1,17	1,50
Viscosity:	pasty		extremely pasty		pasty
Stability/Run-off (ASTM D 2202) mm:	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
Skin formation (minutes): ³⁾	25	10	10	45	3
Cure speed: ³⁾	2-3 mm in the first 24 hours				
Volume change (DIN 52451) %: ³⁾	-1	-2	-1	-6	Increase
Gap filling up to max. mm:	5	10	5	5	10
Gap width up to max. mm:	25	30	5	25	---
Shelf life in months: +5°C to +25°C (+41 to +77°F)	12	12	12	9	12
	WEICON Adhesives and Sealants in cured condition				
Shore-A-Hardness (DIN 53505 / ASTM D 2240):	42	50	58	45	---
Elongation at break (DIN 53504 / ASTM D 412) %:	650	600	230	450	---
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)	2,0 N/mm² (290 psi)	10 N/mm² (1.450 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)	1,6 N/mm² (230 psi)	11 N/mm² (1.600 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)	9 N/mm² (1.310 psi)	---
Movement capacity max. %:	15	20	15	10	---
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
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:					

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.

Technical Data

Elastic Adhesives and Sealants

	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 9005	transparent opaque		red 3016	black 9005
Content/Container:	310 ml cartridge					
	85 ml tube	/			85 ml tube	
Density (g/cm ³):	1,03	1,25	1,03	1,03	1,28	1,06
Viscosity:	pasty		pasty		11.000 mPa.s	
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/mm ² :	1,3 N/mm ² (190 psi)		1,3 N/mm ² (190 psi)	1,8 N/mm ² (260 psi)	2,0 N/mm ² (290 psi)	2,0 N/mm ² (290 psi)
Average tensile shear strength (DIN 53283 / ASTM D 1002) : ⁴⁾	0,8 N/mm ² (120 psi)		0,8 N/mm ² (120 psi)	0,8 N/mm ² (120 psi)	1,3 N/mm ² (190 psi)	0,7 N/mm ² (100 psi)
Tear strength (DIN 53515 / ASTM D 624):	4,0 N/mm ² (520 psi)		6,0 N/mm ² (870 psi)	3,6 N/mm ² (510 psi)	6,0 N/mm ² (870 psi)	4,0 N/mm ² (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 ¹⁵ 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.

WEICON Flex 310 M® 2 K

WEICON Flex 310 M® 2 K fast-curing in non-cured condition		
Chemical basis	2-K-hybrid-Polymer	
Density g/cm³ (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 life¹	approx. 5 minutes	
Final hardness¹¹	approx. 60 minutes	
Volume change (DIN 52451)¹¹	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/mm² (320 psi)	
Average tensile shear strength² (DIN 51504)	1,3 N/mm² (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)	

Contact Adhesive GMK 2410

Basis:	Polychloroprene (CR)
Density:	0,93 g/cm ³
Viscosity:	approx. 2.400 mPa.s
Colour:	yellowish-brown
Consumption:	250 – 350 g/m ²
Evaporation time:	5 – 10 minutes
Contact adhesion time:	10 minutes
Final strength:	approx. 24 hours
Temperature range:	from -40°C to +80°C (-40 to 176°F), briefly to +100°C (+212°F)
Processing temperature:	+15°C to +35 °C (+59 to +95°F)
Storage stability:	12 months in unopened container
Storage:	at room temperature (+15°C to +25°C/+59 to +77°F) dry, in densely closed packaging





Technical Data

Technical Sprays

	Rust Protection 2000 PLUS charcoal-grey	Rust Protection 2000 PLUS silver-grey	Zinc-Spray	Zinc-Spray bright grade	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
Colour*1:	charcoal-grey / DB 703	silver-grey / DB 701	RAL 9006, "Slightly weathered hot-dip galvanisation"	RAL 9006, "Fresh hot-dip galvanisa- tion"	RAL 9006, "Fresh hot-dip galvanisa- tion"	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
Application:	indoors and outdoors				indoors and outdoors				inside		indoors and outdoors	
Binding agent:	Acrylic resin		styrenated alkyd resin	modified Alkyd resin	Acrylic resin	Acrylic resin	Hydrocarbon resin	Acrylic resin	Alkyd resin	Natural resin	Acrylic resin	Acrylic resin
Pigment:	Lamellar hematite	flaky zinc and alu- minium pigments	flaky zinc and alu- minium pigments	Zinc- and alu- minium pigments	Aluminium pigments	Aluminium pigments	flaky aluminium pigments	Stainless steel pigments	Stainless steel and aluminium pigments	flaky aluminium pigments	Copper pigments	Brass pigments
Pigment purity:	> 90% ferric oxide	approx. 99.9 Zn / approx. 99.9% Al	approx. 99.9 Zn / approx. 99.5% Al	approx. 99.5% Al / approx. 94.0 Zn	approx. 99.5% Al	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
Percentage of metal in dry film:	approx. 58%	approx. 70%	approx. 70%	approx. 51%	approx. 43%	approx. 43%	approx. 23%	approx. 45%	approx. 35.0% VA/Al	approx. 15%	approx. 50%	approx. 52%
Content:	400 ml				400 ml				400 ml			
Specific Weight g/cm³:	1,3 - 1,4		1,1 - 1,3		1,0 - 1,2	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
Recommended primer:	not necessary		not necessary		Zinc-Spray	Zink Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	Zinc-Spray	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)				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/m²		approx. 150 ml/m²		approx. 150 ml/m²	approx. 120 ml/m²	approx. 120 ml/m²	approx. 120 ml/m²	approx. 120 ml/m²	approx. 150 ml/m²	approx. 120 ml/m²	approx. 120 ml/m²
Layer thickness at 1.5 cross coats*3:	approx. 60-80 µm		approx. 30-50 µm		approx. 20-40 µm	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
Drying time*3:	dust dry	approx. 30 minutes		approx. 15 minutes		approx. 15 minutes		approx. 4-6 hours		approx. 10 hours		approx. 4-6 hours
	hardened	approx. 24 hours		approx. 12 hours		approx. 12 hours		approx. 4-6 hours		approx. 8 hours		approx. 4-6 hours
	painting over	approx. 24 hours		approx. 12 hours		approx. 12 hours		cannot be painted over		approx. 4-6 hours		approx. 4-6 hours
Abrasion-resistant:	abrasion-resistant				abrasion-resistant	abrasion-resistant	abrasion-resistant	abrasion-resistant	abrasion-resistant	not abrasion- resistant	abrasion- resistant	abrasion- resistant
Cross cutting DIN 53151 / ISO 2409:	Cross cut characteristic value GT 0 to GT 1		Cross cut character- istic value GT 0	Cross cut characteristic value GT 0 to GT 1		Cross cut characteristic value GT 0 to GT 1						
Salt spraying test DIN 50021 / DIN 53167:	>2.000 hours*4		>550 hours		>240 hours		---		>140 h		---	
Mandrel bend test DIN EN ISO 1519:	no hair cracking				no hair cracking							
Top coating:	not required				not required	not required	cannot be painted over	not required	not required	cannot be painted over	not required	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)	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)
Storage stability*6:	24 months				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.

*4 By double cross-coating application

*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).

	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	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 +1200°C (+2192°F)	400 ml	24	extremely high pressure resistance, corresponds to MIL-9070
Anti-Seize Assembly Spray „High Tech“	white	medical white oil	-40°C (-40°F) up to +1400°C (+2552°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	transparent	almost odourless	-20°C (-4°F) up to +150°C (+302°F)	400 ml	24	cleans in a contact-free manner
Contact Spray	copper	mineral oil	-20°C (-4°F) up to +1.100°C (+2012°F)	400 ml	24	dispels moisture, protects electrical contacts
Copper Paste Assembly Spray	colourless	solvent	-20°C (-4°F) up to +50°C (+122°F)	400 ml	24	high temperature resistant
Corro-Protection	colourless	solvent	---	400 ml	24	on a wax basis
Electro Contact Cleaner	colourless	solvent	---	400 ml	24	high-purity solvents
Fitting Spray	colourless	almost 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
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	odourless	---	400 ml	24	antistatic effect
Multi-Foam	white	citrus	---	400 ml	24	biodegradable
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
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
PTFE-Spray	milky	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
Rust-Shock	transparent	solvent	---	400 ml	12	removes rusted-tight screw connections of any type in seconds
Sealant and Adhesive Remover	milky	solvent	---	400 ml	12	powerful
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	almost odourless	-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	-17°C (+1°F) up to +120°C (+248°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
TFT/LCD Screen Cleaner	white	almost odourless	---	200 ml	24	also suitable for sensitive plastic and glass surfaces
Top-Lub	colourless	mineral oil	-40°C (-40°F) up to +200°C (+392°F)	400 ml	24	particularly adhesive, pressure-resistant, and waterrepellent. With excellent creep properties
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®	yellowish	vanilla	-50°C (-58°F) up to +210°C (+410°F)	400 ml	24	multifunctional oil with multiple effect
Welding Protection Spray	colourless	solvent	---	400 ml	24	SLV-tested, silicone-free

Technical Data

Technical Liquids

	Brushable Liquid Zinc Paint	Brushable Liquid Zinc Coating	Aluminium Paint	Stainless Steel Paint
Colour shade / Level of brilliance:	Zinc-grey / matt	Galvanized / metallic shine	Aluminium / metallic shine	Steel-grey / metallic shine
Binding agents:	Epoxy resin ester	Alkyd resin	Alkyd combination	Acrylic resin
Pigment:	Zinc pigments (D50 4 µm)	Zinc and aluminium pigments (D50 25 µm)	Aluminium pigments (D50 16 µm)	Stainless steel pigments (D50 30 µm - 16% Cr, 12% Ni, 2% Mn)
Pigment purity:	approx. 98.5 %	approx. Al 99.5% and Zn 99.9%	approx. 99.5 %	VA alloy approx. 98.5 %
Specific weight:	1.96 g/cm³	1.25 g/cm³	1.00 g/cm³	1.00 g/cm³
Percentage of metal in the dry film:	approx. 60.5 %	approx. 58.5 %	approx. 32.0 %	approx. 15.0 %
Viscosity* (DIN EN ISO 2431) / Consistency:	approx. 70 s 4 mm / stretchable	approx. 70 s 4 mm / stretchable	approx. 120 s 4 mm / stretchable	approx. 90 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	approx. 120 ml/m²
Spray consistency:		10 - 20 % universal thinning		
Drying time (dust dry):	30 minutes	60 minutes	60 minutes	60 minutes
Hardened*:			12 hours	
Recoat time / can be reprimed*:			12 hours	
Final hardness*:			48 hours	
Minimum layer thickness:	50 µm	30 µm	20 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	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)	approx. +180°C (+356°F)
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.

	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	RWTVU-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	milky	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.

Anti-Seize

	Anti-Seize	Anti-Seize „High-Tech“
Basic oil	Synthetic oil mixture	Medicinal oil
Colour	anthracite	white
Oil/W device coefficient of friction	0.13	0.10 to 0.13
Coefficient of friction total	0.14 µ	0.13 µ
Coefficient of friction thread	0.13 µ	0.11 µ
Coefficient of friction on upside down	0.15 µ	0.14 µ
VKA-Test (DIN 51350) goods load	4200 N	3600 N
VKA-Test (DIN 51350) welding load	4400 N	3800 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0.5 mm	0.7 mm
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm	
Sulphur content (DIN 51400)	< 0.1%	
Water resistance (DIN 51807)	0 - 90	1 - 90
Temperature resistance	-180 to +1.200°C (-292 to +2.192°F)	-40 to +1.400°C (-40 to +2.552°F)
Pressure load	230 N/mm² (33.400 psi)	
Density at +20°C (+68°F) (DIN 51757)	1.16 g/cm³	1.42 g/cm³
Salt spray test (DIN 50017)	> 170 h	
Thermal conductivity	0.3 W/m·K	0.7 W/m·K
Dielectric strength	0.47 kV/mm	0.40 kV/mm
Specific resistance	1,2 x 10 ¹⁵ Ohm/cm	1,0 x 10 ¹⁵ Ohm/cm

	Copper Paste
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/cm³
Kinematic viscosity basic oil (+40°C/+104°F DIN 51562)	180 mm²/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)

Allround Lubricant

	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-Klasse 2	NLGI-Klasse 1-2	NLGI-Klasse 1	NLGI-Klasse 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 Goods load: 2200 N Spherical cap value (1 Min / 1000 N): 2,0 mm	3200 N 3000 N	3400 N 3200 N	1800 N 1700 N	3600 N 3400 N
Speed identifying value (k ₁ · n · d ₁):	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):	approx. 230 mm²/s approx. 16 mm²/s	approx. 165 mm²/s approx. 14 mm²/s	approx. 100 mm²/s approx. 9 mm²/s	approx. 400 mm²/s approx. 40 mm²/s	approx. 100 mm²/s approx. 9 mm²/s
Salt spray test with separated protective coats (Federal German Armed Forces)	---	---	no corrosion	---	---
Regulations 338 h/35°C, 5% NaCl):	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0
EMCOR-corrosion test (DIN 51 802):	0.94 g/cm³	0.92 g/cm³	0.94 g/cm³	0.93 g/cm³	0.90 g/cm³
Density at +20°C (+68°F) (DIN 51757):			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
Conforms to:	. / .	. / .			
Shelf life at least (months)*:	24	24	24	24	24

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Programme overview

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