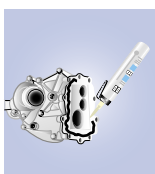
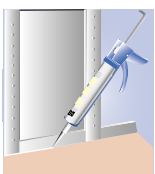
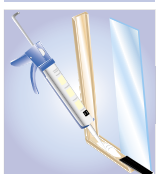
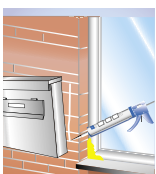




Elastic One-Component Adhesives and Sealants

- flexible • strong • durable



Elastic One-Component Adhesives and Sealants

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.



Bonding of parts in lamp production

The use of elastic adhesives and sealants offers the following advantages for the user:

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

Product groups:

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

Silicones:

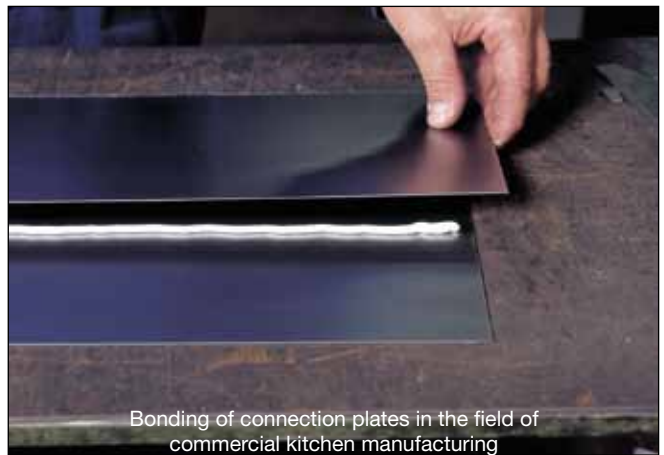
- High-quality sealants for industrial applications
- Excellent resistance to UV, weathering and media
- Resistant to aging
- Can be used in the temperature range up to + 300°C

Polyurethanes:

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

MS polymers:

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



Bonding of connection plates in the field of commercial kitchen manufacturing

| Content | |
|--|---------------|
| Introduction | Page 2 |
| Flex 310 M® family, Flex+bond® | Pages 3 - 6 |
| Speed-Flex®, Aqua-Flex®, Solar-Flex, Flex 310, Fast-Bond | Pages 7 - 9 |
| Information on surface preparation/pretreatment | Page 10 |
| Silicon A, Silicon N, Silicon F, HT 300, Black-Seal | Pages 11 - 14 |
| Resistance list | Page 15 |
| Instructions for use | Page 16 |
| Application examples | Page 17 |

Flex 310 M[®] Classic

Universal elastic adhesive on an MS polymer basis. Suitable for metals, many plastics, ceramic, wood, glass, stone, etc. Good adhesion on aluminium and stainless steel even without primer.

Applications:

- Metalworking
 - Tank and apparatus construction
 - Car body, vehicle, and freight container construction
 - Ventilation and air conditioning
 - Electrical industry
 - Yacht and ship building
- and wherever silicones or products containing silicone are not suitable.



Bonding of steel structures for interior decoration

Properties:

- Suitable for universal use
- Free of silicone, isocyanate, and halogen
- Can be painted over immediately* ("wet in wet")
- Sandable (after curing)
- Excellent aging resistance
- Good UV stability
- Resistant to fresh and salt water
- Solvent-free, odour-free

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



Gluing in floor panels in the field of "vehicle finishing"

ISEGA Inspection institute for chemical, physical and microbiological analysis

Certificate of Conformity for WEICON Flex 310 M[®] Classic as an adhesive in food technology

Flex 310 M[®] Crystal

Transparent (crystal-clear) elastic adhesive on MS polymer basis. Excellent adhesion on glass, PC*, PMMA* and acrylic glass*. Therefore, especially suited for elastic connections in which the adhesive is not to be or must not be visible.



Renovation of balconies on old buildings

Applications:

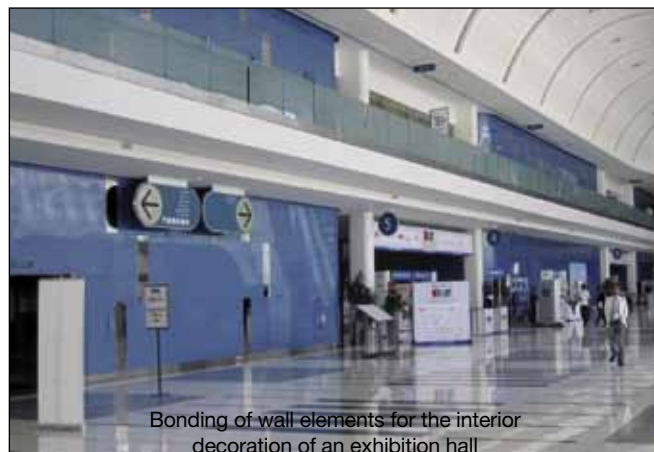
- Plastics processing
 - Metalworking, tank and apparatus construction
 - Electrical and lighting industry
 - Trade fair and shop construction
 - Ventilation and air conditioning
- and wherever silicones or products containing silicone are not suitable.

Properties:

- Crystal-clear curing
- Free of silicone, isocyanate, and halogen
- Excellent aging resistance
- Good UV stability
- Resistant to fresh and salt water
- Solvent-free, odour-free
- If necessary, can also be painted over** ("wet in wet")

* Only tension-free bonding

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



Bonding of wall elements for the interior decoration of an exhibition hall

ISEGA Inspection institute for chemical, physical and microbiological analysis

Certificate of Conformity for WEICON Flex 310 M[®] Crystal as an adhesive in food technology

Flex 310 M® HT 200

New

High-temperature-resistant elastic adhesive on MS polymer basis. For structural adhesive bonding in industry.

The high thermal stability enables the adhesion and sealing of components that are to be subsequently coated with thermal lacquer (powder-coating).



Sealing of a welding seam on a powder-coated rolling gate

Applications:

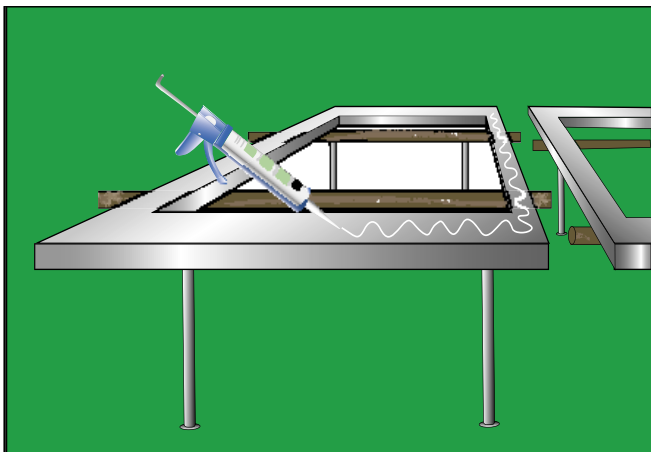
- Metalworking, tank and apparatus construction
- Ventilation and air conditioning
- Car body, freight container, train car and vehicle construction

and wherever silicones or products containing silicone are not suitable.

Properties:

- High-temperature-resistant up to +200°C
- Can be painted over immediately* ("wet in wet")
- Sandable (after curing)
- Excellent aging resistance
- Solvent-free, odour-free
- Free of silicone, isocyanate, and halogen

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



Flex 310 M® Super-Tack

New

Elastic adhesive with high initial strength on MS polymer basis. The fast development of adhesive power and the high initial strength enable problem-free applications even on vertical surfaces. Replaces screws, bolts, dowels, rivets and other conventional fasteners.



Bonding of plastic parts on a roof covering - Part 1

Applications:

- Dry construction and interior works
 - Metalworking
 - Tank and apparatus construction
 - Ventilation and air conditioning
 - Trade fair and shop construction
 - Yacht and ship building
- and wherever silicones or products containing silicone are not suitable.

Properties:

- High initial strength
- Fast build-up of adhesive power
- Resistant to weathering and UV
- Free of silicone, isocyanate, and halogen
- Solvent-free, odourless and non-corrosive
- Can be painted over immediately* ("wet in wet")
- Sandable (after curing)

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



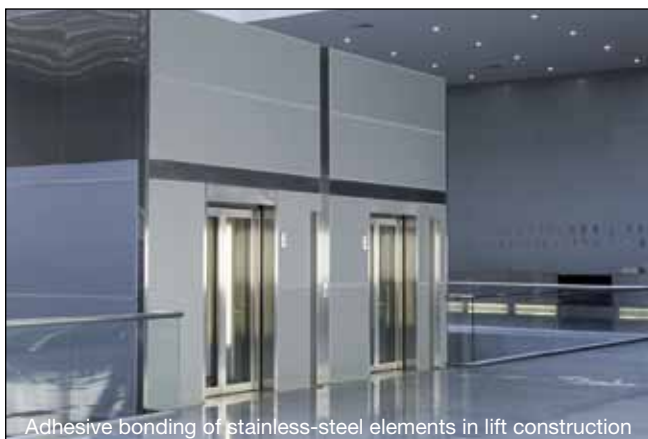
Bonding of plastic parts on a roof covering - Part 2

Flex 310 M[®] Stainless Steel

New

Non-corrosive elastic adhesive on MS polymer basis with high adhesive power. Especially suited for adhesive bonding and sealing seams and joints on stainless steel, aluminium and non-ferrous metals, etc.

Flex 310 M Stainless Steel can also be used wherever the colour of the sealant and adhesive is to be matched to the material (e.g. stainless steel, aluminium, etc.)



Adhesive bonding of stainless-steel elements in lift construction

Applications:

- Metalworking, tank, and apparatus construction
 - Food industry
 - Kitchen construction and plumbing sector
 - Ventilation and air conditioning
- and wherever silicones or products containing silicone are not suitable or undesirable.

Properties:

- Non-corrosive
- Free of silicone, isocyanate, and halogen
- Solvent-free, odour-free
- Aging resistance and UV stability
- Can be painted over immediately* ("wet in wet")
- Sandable (after curing)

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



Sealing connecting joints in commercial kitchen construction

ISEGA Inspection institute for chemical, physical and microbiological analysis

Certificate of Conformity for WEICON Flex 310 M[®] Stainless Steel as an adhesive in food technology



Flex+bond[®] for universal use

Thanks to its high adhesive power, WEICON Flex+bond enables a broad range of applications for professional and private use.

Nearly all materials, e.g.

- Metal
- Wood
- Plastic
- Glass
- Ceramic etc.

can be bonded to themselves and among each other. For a great variety of repairs and bondings as well as for the sealing of seams and joints.



Gluing on type plates

WEICON Flex+bond is one-component, remains permanently elastic and can be sanded and painted over after curing (wet in wet*).

Properties:

- Permanently elastic
- Temperature resistant from -40°C to +90°C, briefly (2-3 hrs.) up to +130°C
- Resistant to weathering
- UV-stable
- Resistant to salt water
- Odourless curing
- Can be painted over immediately ("wet in wet")*
- Cures without shrinkage and bubble-free
- Sandable
- Resistant to aging
- Isocyanate and solvent-free
- Free of silicone, halogen and PVC

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

ISEGA Inspection institute for chemical, physical and microbiological analysis

Certificate of Conformity for WEICON Flex+bond[®] as an adhesive in food technology

Technical Data

| Product | 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® | |
| Properties | | | | | | | |
| Basis: | One-component MS polymer | | | | | | |
| RAL colour*1: | white 9003 grey 7000 black 9004 | transparent/ crystal-clear | white 9003 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 in g/cm³: | 1.44 | 1.04 | 1.44 | 1.62 | 1.06 | 1.44 | 1.04 |
| Viscosity: | pasty | | | | | | |
| Stability/Run-off (ASTM D 2202) in mm: | 1 | <1 | <1 | <1 | <1 | 1 | <1 |
| Processing temperature: | +5°C to +35°C*2 (+41°F to +95°F) | | | | | | |
| Cure type: | by humidity | | | | | | |
| Curing condition: | +5°C to +40°C (+41°F to +104°F) and 30% to 95% rel. humidity | | | | | | |
| Skin-over time (minutes):*3 | 25 | 8 | 20 | 10 | 10 | 25 | 8 |
| Cure speed:*3 | 2-3 mm in the first 24 hours | | | | | | |
| Volume change (DIN 52451) in %:*3 | -1 | -3 | -4 | -2 | -3 | -1 | -3 |
| Gap filling up to max. mm: | 5 | 3 | 10 | 10 | 5 | 5 | 3 |
| Gap width up to max. mm: | 25 | 5 | 30 | 30 | 25 | 25 | 5 |
| Shelf life (+5°C to +25°C) in months: | 12 | | | | | | |
| Product | WEICON Adhesives and Sealants in 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® | |
| Shore Hardness A (DIN 53505/ASTM D 2240): | 42 | 40 | 60 | 50 | 45 | 42 | 40 |
| Elongation to break (DIN 53504/ASTM D 412) in %: | 650 | 310 | 350 | 600 | 250 | 650 | 310 |
| Tensile strength of the pure adhesive/sealant (DIN 53504/ASTM D 412): | 3.3 N/mm² (479 psi) | 2.4 N/mm² (348 psi) | 2.7 N/mm² (392 psi) | 1.9 N/mm² (276 psi) | 2.4 N/mm² (348 psi) | 3.3 N/mm² (479 psi) | 2.4 N/mm² (348 psi) |
| Average tensile shear strength (DIN 53283/ASTM D 1002):*4 | 2.1 N/mm² (304 psi) | 1.0 N/mm² (145 psi) | 1.7 N/mm² (247 psi) | 1.5 N/mm² (218 psi) | 1.8 N/mm² (261 psi) | 2.1 N/mm² (304 psi) | 1.0 N/mm² (145 psi) |
| Tear strength (DIN 53515/ASTM D 624): | 20 N/mm (114 pli) | 17 N/mm (97 pli) | 18 N/mm (103 pli) | 13 N/mm (74 pli) | 10 N/mm (57 pli) | 20 N/mm (114 pli) | 17 N/mm (97 pli) |
| Movement capacity max. %: | 18 | 20 | 20 | 20 | 20 | 18 | 20 |
| Fungicide: | no | | | | | | |
| Temperature resistance: | -40°C (-40°F) to +90°C (+194°F) briefly (approx. 2 hrs.) up to +130°C (+266°F) | -40°C (-40°F) to +90°C (+194°F) | -40°C (-40°F) to +90°C (+194°F) briefly (approx. 30 min.) up to +200°C (+392°F) | -40°C (-40°F) to +90°C (+194°F) | -40°C (-40°F) to +90°C (+194°F) | -40°C (-40°F) to +90°C (+194°F) | -40°C (-40°F) to +90°C (+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: | see Primer selection table on Page 11 | | | | | | |

*1 Corresponds approximately to the specified RAL colours.

*2 For easier processing, the cartridges, tubes, etc. should be heated to room temperature (+20°) before use at low temperatures.

*3 Normal climate +23°C 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 hardening of the adhesives and sealants is only slightly delayed by a coating of paint.

Speed-Flex®



Bonding of stainless-steel plates on wood

Highly adhesive and universal power adhesive with extremely high initial strength; on MS polymer basis. Replaces conventional fasteners, e.g. screws, bolts, dowels, rivets, etc. Speed-Flex is pasty and stable; this enables adhesive bonds even on vertical surfaces indoors and outdoors.

Applications:

Especially where additional fixing on vertical surfaces is not possible or desirable e.g.:

- Wall, ceiling and floor installation of cable ducts, post boxes, signs, etc.
- Adhesive bonding of baseboards and corner connectors
- Fixing of insulating materials, e.g. insulating material panels

Properties:

- Extremely high initial adhesion
- Pasty, stable
- Free of silicone, isocyanate, and halogen
- Cures odourless and shrinkage-free
- Excellent aging resistance
- Resistant to weathering and UV
- Can be painted over immediately* (wet in wet)

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



Gluing in and sealing of glass panes in a stainless-steel housing

ISEGA Inspection institute for chemical, physical and microbiological analysis

Certificate of Conformity for WEICON Speed-Flex® as an adhesive in food technology

Aqua-Flex

Ideal adhesive and sealant on MS polymer basis for wet and moist surfaces. Suitable for metals, many plastics, ceramic, wood, glass, stone, etc. Good adhesion on aluminium and stainless steel even without primer.

Applications

- Sealing of tubes and water pipes
- Replacement of tiles and joints even under water*¹
- Bonding of decorative elements in gardens and ponds, e.g. brook basins, PVC pond films, etc.
- Sealing in humid areas and in the sanitary sector*²
- Bondings and repairs in the maritime sector
- Repair of roof leakages*³

Properties:

- Resistant to fresh water and saltwater
- Excellent aging stability
- Resistant to weathering and UV
- Fast skin-over time
- Free of silicone, isocyanate, and halogen
- Solvent-free, odour-free

*¹ not suitable for applications in chloric water

*² can be attacked by bacteria

*³ not compatible with bituminous surfaces

ISEGA Inspection institute for chemical, physical and microbiological analysis

Certificate of Conformity for WEICON Aqua-Flex as an adhesive in food technology

Solar-Flex®

New

Elastic adhesive with high initial strength especially for the solar industry, on MS polymer basis. Due to the fast development of adhesive power and the high initial strength, bondings on vertical surfaces are possible. Replaces conventional fastening methods for the installation of solar and photovoltaic systems.

Applications:

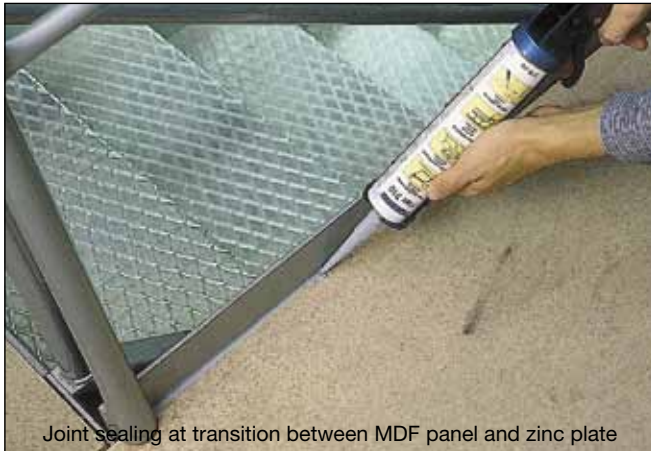
- Installation of solar and photovoltaic systems
- Bonding of junction boxes
- Fixing of connecting lines
- Bonding of marking systems

Properties:

- High initial strength on vertical surfaces
- Broad range of adhesion, even on moist surfaces
- Resistant to weathering and UV
- Free of silicone, isocyanate, and halogen
- Solvent-free, odourless and non-corrosive
- Can be painted over immediately* (wet in wet)

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

Flex 310



Elastic and strong adhesive and sealant on polyurethane (PUR) basis. For bondings and sealings on metals, many plastics, ceramic, wood, glass, stone, etc.

Applications:

- Tank and apparatus construction
 - Car body, freight container and vehicle construction
 - Ventilation and air conditioning
 - Pipeline and fittings construction
 - Energy and electrical industry
 - Insulating technology
- and in many areas of plastic technology and wherever silicone is not suitable.

Properties:

- Can be painted over* and sanded after curing
- Odourless curing
- Resistant to weathering and UV
- Excellent aging resistance
- Resistant to fresh water and saltwater
- Stable, pasty
- Silicone-free
- Non-foaming

A better adhesion is achieved by using suitable WEICON adhesion agents (see Page 10).

* With suitable paint coating systems (except alkyd resin paints)



Fast-Bond

Structural and assembly adhesive



Fast-curing, one-component structural and assembly adhesive for universal use on polyurethane basis (PUR).

Suitable for MDF, wooden, particle, fibre and gypsum-plaster boards, concrete, marble, natural and synthetic stone, ceramic, metals and hard foam (e.g. polystyrene).

Applications:

- Bonding of baseboards and corner connectors
- Fixing of stairs
- Gluing* of frames, windows and doors
- Installation of handrails
- Fixing of insulating material, e.g. insulating boards
- Bonding of metal thresholds
- Wall and floor installation of cable ducts
- Fixing of metal frames
- Bonding of pegs inside walls

Properties:

- Can be painted over and sanded after curing
- Resistant to weathering and UV
- Odourless curing
- Excellent aging resistance
- Resistant to fresh water and saltwater
- Stable, pasty
- Silicone and solvent-free

* Waterproof gluing in accordance with DIN EN 204 D4



Technical Data

| Product | WEICON Adhesives and Sealants in non-cured condition | | | | |
|---|--|---------------------------------|--|--|--|
| | Aqua-Flex | Solar-Flex® | Speed-Flex® | Flex 310 | Fast-Bond |
| Basis: | One-component MS polymer | | | One-component-polyurethane | |
| RAL colour*1: | white 9003 grey 7000 black 9004 | white 9003 grey 7000 | white 9003 grey 7000 | 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 in g/cm³: | 1.44 | 1.62 | 1.60 | 1.17 | 1.50 |
| Viscosity: | pasty | | extremely pasty | pasty | |
| Stability/Run-off (ASTM D 2202) in mm: | 1 | <1 | <1 | 1 | >1 |
| Processing temperature: | +5°C to +35°C*2 (+41°F to +95°F) | | | | |
| Cure type: | by humidity | | | | |
| Curing condition: | +5°C to +40°C (+41°F to +104°F) and 30% to 95% rel. humidity, Aqua-Flex also hardens under water | | | +5°C to +35°C (+41°F to +95°F) and 40% to 70% rel. humidity | |
| Skin-over time (minutes):*3 | 25 | 10 | 10 | 45 | 3 |
| Cure speed:*3 | 3 mm in the first 24 hours | | | | |
| Volume change (DIN 52451) in %:*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 (+5°C to +25°C) in months: | 12 | | | | |
| | WEICON Adhesives and Sealants in cured condition | | | | |
| Shore Hardness A (DIN 53505/ASTM D 2240): | 42 | 50 | 58 | 48 | --- |
| Elongation to break (DIN 53504/ASTM D 412) in %: | 650 | 600 | 230 | 450 | --- |
| Tensile strength of the pure adhesive/sealant (DIN 53504/ASTM D 412): | 3.3 N/mm² (479 psi) | 1.9 N/mm² (276 psi) | 2.2 N/mm² (319 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 (304 psi) | 1.5 N/mm² (218 psi) | 1.3 N/mm² (189 psi) | 1.6 N/mm² (232 psi) | 11 N/mm² (1.595 psi) |
| Tear strength (DIN 53515/ASTM D 624): | 20 N/mm (114 pli) | 13 N/mm (74 pli) | 10 N/mm (57 pli) | 9 N/mm (51 pli) | --- |
| Movement capacity max. %: | 15 | 20 | 15 | 10 | --- |
| Fungicide: | no | | | | |
| Temperature resistance: | -40°C (-40°F) to +90°C (+194°F) briefly (approx. 2 hrs.) up to +130°C (+266°F) | -40°C (-40°F) to +90°C (+194°F) | -40°C (-40°F) to +80°C (+176°F) briefly (approx. 2 hrs.) up to +120°C (+248°F) | -40°C (-40°F) to +90°C (+194°F) briefly (approx. 2 hrs.) up to +120°C (+248°F) | -30°C (-22°F) to +100°C (+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: | see Primer selection table on Page 11 | | | | --- |

*1 Corresponds approximately to the specified RAL colours.

*2 For easier processing, the cartridges, tubes, etc. should be heated to room temperature (+20°) before use at low temperatures.

*3 Normal climate +23°C 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 hardening of the adhesives and sealants is only slightly delayed by a coating of paint.

Information on surface preparation/pretreatment

Clean and grease-free surfaces are the basic condition for good bonding results. By using adhesion agents (primers), the adhesion can be considerably increased on many materials.

| Material | | Basis MS polymers (POP) | Basis polyurethane (PUR) |
|----------------------------------|--------------------------|--|--|
| ABS | | Surface Cleaner + Primer K 200 | Surface Cleaner + Primer K 200 |
| Aluminium | bare | Surface Cleaner + Primer M 100 | Surface Cleaner + roughening up + Primer M 100 |
| | chromated | Surface Cleaner | Surface Cleaner |
| | anodised | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| | powder-coated | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| | primed | Surface Cleaner | Surface Cleaner |
| | painted | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| EPDM | | Surface Cleaner + Primer K 200 | No adhesion |
| GFRP (polyester, epoxy) | smooth/rough side | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| | web goods | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| | hand laminate | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| Glass | untreated, clear | Surface Cleaner + Primer M 100** | Surface Cleaner + Primer M 100** |
| | ceramic-coated | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| Wood | phenol-coated | No adhesion | Surface Cleaner + roughening up + Primer M 100 |
| | untreated | Clean with humid cloth + Primer S 300 | Clean with humid cloth + Primer S 300 |
| PA (polyamide) | | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| PIR hard foam (polyisocyanurate) | | Surface Cleaner | Surface Cleaner |
| PMMA (Plexiglas) | | Surface Cleaner + Primer M 100* | Surface Cleaner + Primer M 100* |
| Polywood | | Roughen up finely + Surface Cleaner | Roughen up finely + Surface Cleaner |
| PP/PE | | Surface Cleaner + Primer P 400* | Surface Cleaner + Primer P 400* |
| PK | hard foam | Surface Cleaner | Surface Cleaner |
| | panels, impact-resistant | Surface Cleaner + Primer M 100* | No adhesion |
| PUR hard foam (polyurethane) | | Surface Cleaner | Surface Cleaner |
| PVC | panels | Surface Cleaner + Primer K 200 | Surface Cleaner + Primer K 200 |
| | hard foam | Surface Cleaner | Surface Cleaner |
| Steel | bare | Surface Cleaner + Primer K 200 | Surface Cleaner + Primer K 200 |
| | chromated | Surface Cleaner | Surface Cleaner |
| | film-coated | Surface Cleaner + Primer M 100 | No adhesion |
| | primed | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| | painted | Surface Cleaner + Primer M 100 | Surface Cleaner + Primer M 100 |
| | powder-coated | Surface Cleaner + Primer K 200 | Surface Cleaner + Primer M 100 |
| | VA (stainless steel) | Surface Cleaner + roughening up + Primer M 100 | Surface Cleaner + roughening up + Primer M 100 |
| | galvanised | Surface Cleaner + roughening up + Primer M 100 | Surface Cleaner + roughening up + Primer M 100 |

* Preliminary tests are required

** Protect against UV back radiation

Primer M 100: For pretreating non-absorbent surfaces, e.g. metals, plastics, painted surfaces, enamels, ceramic and coated glass.

Primer K 200: For pretreating non-absorbent and painted plastic surfaces and elastomers, e.g. EPDM.

Primer S 300: For pretreating porous and absorbent surfaces.

Primer P 400: For pretreating polyolefins, e.g. TPE, PE, PP and difficult-to-bond elastomers.

Silicone

WEICON Silicones are used as permanently elastic adhesives and sealants for glass and metal structures and for sealing gearbox parts and flanges.

In addition to a wide range of applications, they are characterised by a very high temperature resistance (up to +300°C).

WEICON Silicones have an excellent stability to weathering, aging and UV and are resistant to many chemicals and mechanical loads.

WEICON Silicones have been designed for the demanding quality requirements in the industrial sector. They consist of 100% solid material and cure at room temperature practically without shrinkage.

Applications include tool making, mechanical and process plant engineering, vehicle construction, fine machinery, filter construction and household technology.

In electrical engineering, cables can be excellently insulated due to the high dielectric strength.

The production of seals (on any desired size), models, casting moulds and prototypes is also possible.

Many materials can be bonded to themselves and among each other. WEICON Silicones adhere to most surfaces, e.g.

- Aluminium and steel
- Glass, glass fabric and ceramic
- Duroplastics, thermoplastics and non-ferrous metals (only WEICON Silicon N suitable)
- Wood and many other materials

WEICON Silicones are compressive-proof and chemically resistant to many media*, e.g.

- Oil and fuel
- Fresh water and saltwater
- Industrial exhaust gases
- Cleaning agents
- Acids and lyes

Different types are available for a variety of applications.

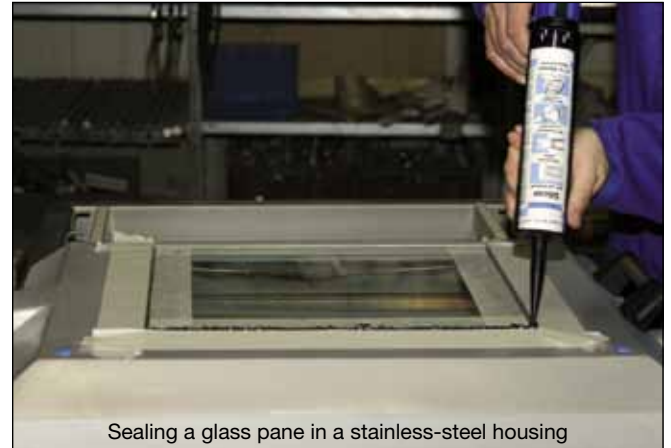
* For resistance list, see Page 15.

Silicone A

- acetate cross-linking -

Highly adhesive, permanently elastic silicone adhesive and sealant, especially developed for high-quality applications in the industrial sector.

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



Sealing a glass pane in a stainless-steel housing

Applications:

- Mechanical and process plant engineering
- Ventilation and air conditioning
- Energy and electrical industry
- Trade fair and shop construction
- Advertising technology

Properties:

- Very good UV stability
- High compressive strength
- Elongation to break > 500%
- Very good adhesion without primer on most materials
- Excellent resistance to aging
- Good chemical resistance
- Temperature resistant up to +200°C



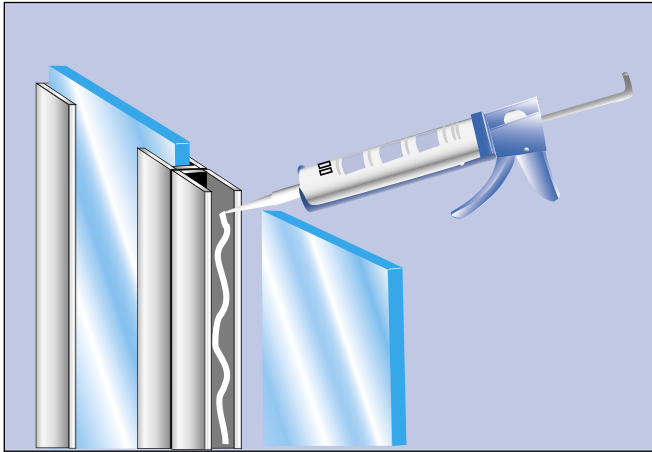
Sealing a glass pane in a stainless-steel housing - Close-up

Silicone N

- neutral-curing -

Neutral-curing, non-corrosive silicone adhesive and sealant. Very good adhesion on all metals, glass, ceramic and many other materials.

Thanks to the special curing system (oxim), no corrosion results on aluminium, non-ferrous metals, etc. compared to acetate-curing silicones. Applications on sensitive plastic surfaces (PC, PMMA, etc.) are possible without tension cracks.

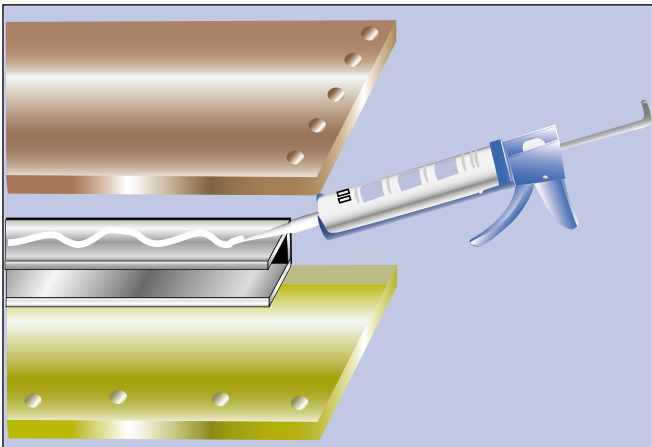


Applications:

- Plastics processing
- Electrical industry
- Energy technology (e.g. solar power systems)
- Trade fair and shop construction
- Advertising technology
- Lighting industry

Properties:

- Suitable for polycarbonate and acrylic glass (preliminary tests required)
- Also suitable for non-ferrous metals - non-corrosive
- Very good adhesion without primer on most surfaces
- Elongation to break approx. 800%
- Excellent resistance to weathering and aging
- Very good UV stability
- Good chemical resistance
- Temperature resistant up to +180°C

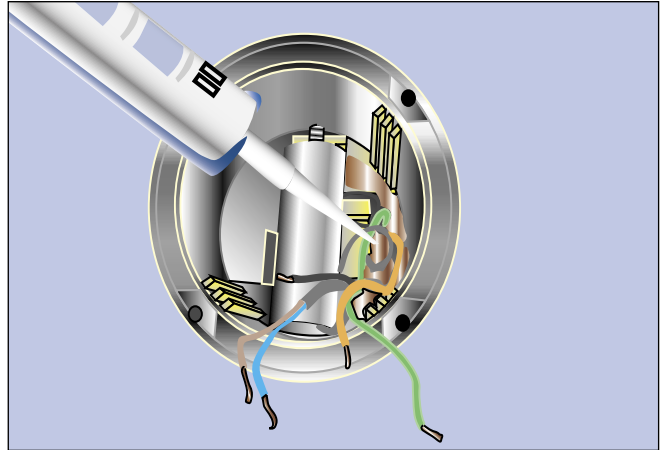


Silicone F

- liquid, self-levelling -

Liquid, self-levelling casting and coating compound. Especially for elastic adhesive bonds, insulation and impregnation. Also for sealing and casting (max. 10 mm) technical components.

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

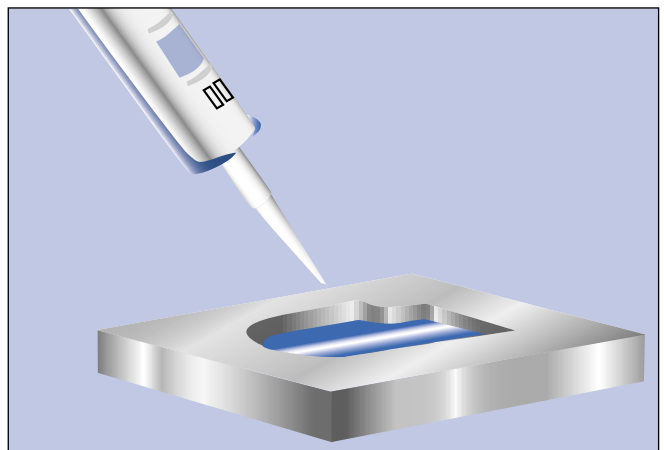


Applications:

- Mechanical and process plant engineering
- Plastics processing
- Energy and electrical industry
- Trade fair and shop construction
- Advertising technology

Properties:

- Self-levelling, spreadable
- Very good adhesion without primer on most surfaces
- High compressive strength
- Elongation to break approx. 370%
- Excellent resistance to weathering and aging
- Very good UV stability
- Good chemical resistance
- Temperature resistant up to +180°C



HT 300

- high-temperature-resistant -

High-temperature-resistant and strong silicone adhesive and sealant. Especially suited for heat-loaded, elastic adhesive bonding and sealing.

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



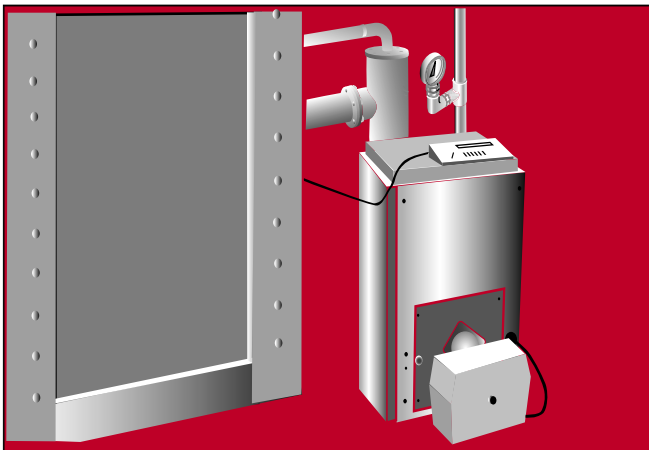
Applications:

- Industrial furnaces
- Flue gas boxes
- Heating facilities
- Exhaust pipes
- Heating cabinets and furnaces

The outstanding product properties (e.g. permanent elasticity) are maintained in the entire temperature range from -60°C to +300°C.

Properties:

- High temperature resistance up to +300°C
- Very good UV stability
- Excellent resistance to weathering and aging
- Good chemical resistance
- Elongation to break approx. 500%
- Colour: red



Black-Seal

- Special silicone -

Oil-, grease and temperature-resistant silicone adhesive and sealant. Suitable for adhesive bonding and sealing for which an especially high level of oil and grease resistance is required. Very good adhesion on steel, aluminium, glass, ceramic and many other materials.



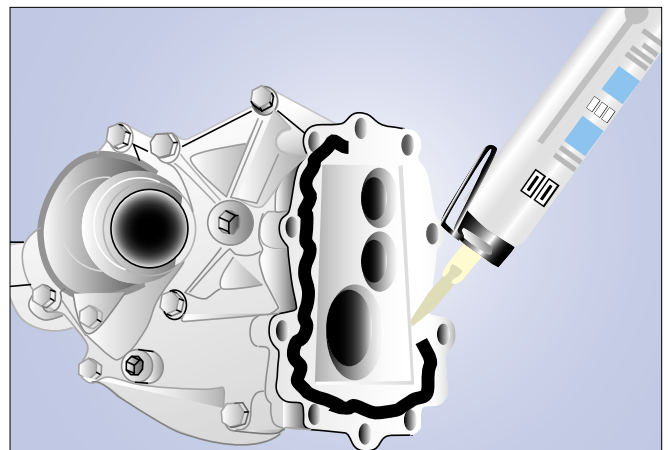
Applications:

- Gearbox, valve and housing covers
- Oil trays and pumps
- Water pumps
- Gearboxes and axles
- Flanges
- Tanks and containers

Properties:

- Excellent resistance to oil, grease and temperature
- Good pressure resistance
- Controlled swelling
- Leak-proof applications
- Very good UV stability
- Good resistance to aging
- Elongation to break approx. 500%
- High temperature resistance up to +300°C
- Colour: black

Black-Seal is also available in a practical press pack (200 ml). No cartridge gun is required for processing this variant.



Technical Data

| Product Properties | WEICON Adhesives and Sealants in non-cured condition | | | | | |
|---|---|---|----------------------------------|----------------------------------|---|---|
| | Silicon A | | Silicon N | Silicon F | HT 300 | Black-Seal |
| Basis: | One-component acetate | | One-comp. oxim | 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 | | | | | |
| | | | | | | 200 ml press pack can |
| | 85 ml tube | / | | | 85 ml tube | |
| Density (g/cm³): | 1.03 | 1.25 | 1.03 | 1.03 | 1.28 | 1.06 |
| Viscosity: | pasty | | pasty | 11,000 mPa s | pasty | pasty |
| Stability/Run-off (ASTM D 2202) in mm: | 1 | | 1 | liquid | 1 | >1 |
| Processing temperature: | +5°C to +35°C*2 (+41°F to +95°F) | | | | | |
| Cure type: | by humidity | | | | | |
| Curing condition: | from +5°C to +40°C (+41°F to +104°F) and 30% to 95% relative humidity | | | | | |
| Skin-over time (minutes):*3 | 7 | | 7 | 15 | 7 | 7 |
| Cure speed:*3 | 2-3 mm in the first 24 hours | | | | | |
| Volume change (DIN 52451) in %:*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): | 12 | | | | | |
| | WEICON Adhesives and Sealants in cured condition | | | | | |
| Shore Hardness A (DIN 53505/ASTM D 2240): | 20 | | 25 | 23 | 35 | 30 |
| Elongation to break (DIN 53504 / ASTM D 412) in %: | >500 | | 800 | 370 | 500 | 500 |
| Tensile strength of the pure adhesive/sealant (DIN 53504/ASTM D 412) N/mm²: | 1.3 N/mm² (189 psi) | | 1.3 N/mm² (189 psi) | 1.8 N/mm² (261 psi) | 2.0 N/mm² (290 psi) | 2.0 N/mm² (290 psi) |
| Average tensile shear strength (DIN 53283/ASTM D 1002):*4 | 0.8 N/mm² (116 psi) | | 0.8 N/mm² (116 psi) | 0.8 N/mm² (116 psi) | 1.3 N/mm² (189 psi) | 0.7 N/mm² (102 psi) |
| Tear strength (DIN 53515/ASTM D 624): | 4.0 N/mm (23 pli) | | 6.0 N/mm (34 pli) | 3.6 N/mm (21 pli) | 6.0 N/mm (34 pli) | 4.0 N/mm (23 pli) |
| Movement capacity max. %: | 25 | | 25 | / | 15 | 20 |
| Temperature resistance: | -60°C (-76°F) to +200°C (+392°F) | | -40°C (-40°F) to +180°C (+356°F) | -40°C (-40°F) to +180°C (+356°F) | -60°C (-76°F) to +280°C (+536°F) briefly (approx. 2 hrs.) +300°C (+572°F) | -60°C (-76°F) to +280°C (+536°F) briefly (approx. 2 hrs.) +300°C (+572°F) |
| Solids content in %: | 100 | | 100 | 90 | 100 | 96 |
| Specific forward resistance: | 2.5 x 10 ¹⁵ Ω/cm | | 7 x 10 ¹⁶ Ω/cm | 7 x 10 ¹⁴ Ω/cm | 2.5 x 10 ¹⁵ Ω/cm | 2.5 x 10 ¹⁵ Ω/cm |
| Dielectric strength: | 21 kV/mm | | 15 kV/mm | 16 kV/mm | 21 kV/mm | 21 kV/mm |
| Thermal conductivity: | 0.3 W/m•K | | 0.3 W/m•K | 0.3 W/m•K | 0.3 W/m•K | 0.3 W/m•K |
| Overpaintable: | cannot be painted over | | | | | |
| Building material category (DIN 4102): | B 2 | | | | | |

*1 Corresponds approximately to the specified RAL colours. *2 For easier processing, the cartridges should be heated to room temperature (+20°) before use at low temperatures.

*3 Normal climate +23°C 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.

Formula for calculating the consumption quantity

| Depth of joint | 5 mm | | 6 mm | | 8 mm | | 10 mm | | 12 mm | |
|----------------|------|--------|------|--------|------|--------|-------|--------|-------|--------|
| | ml/m | m/Car. | ml/m | m/Car. | ml/m | m/Car. | ml/m | m/Car. | ml/m | m/Car. |
| 5 mm | 25 | 12,4 | 30 | 10,3 | | | | | | |
| 6 mm | 30 | 10,3 | 36 | 8,6 | | | | | | |
| 8 mm | 40 | 7,75 | 48 | 6,5 | 64 | 4,8 | | | | |
| 10 mm | 50 | 6,2 | 60 | 5,2 | 80 | 3,9 | 100 | 3,1 | | |
| 12 mm | 60 | 5,2 | 72 | 4,3 | 96 | 3,2 | 119 | 2,6 | | |
| 15 mm | 75 | 4,1 | 90 | 3,4 | 120 | 2,6 | 148 | 2,1 | 182 | 1,7 |
| 18 mm | | | 108 | 2,9 | 144 | 2,2 | 182 | 1,7 | 221 | 1,4 |
| 20 mm | | | | | 160 | 1,9 | 194 | 1,6 | 240 | 1,3 |
| 25 mm | | | | | | | 258 | 1,2 | 300 | 1,0 |

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·ft
 N·m x 0.738 = lb·ft
 N·mm x 0.142 = oz·in
 kg x 2.2046 = lb

Chemical resistance of WEICON one-component adhesives and sealants after curing

| Product Properties | 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® | Speed-Flex® | Aqua-Flex | Solar-Flex® | Flex 310 | Fast-Bond | Silicone A | Silicone N | Silicone F | HT 300 | Black-Seal |
|---|------------------------|------------------------|-----------------------|---------------------------|--------------------------------|------------|-------------|-----------|-------------|----------|-----------|------------|------------|------------|--------|------------|
| 2-propanol | - | - | - | - | - | - | - | - | - | 0 | 0 | + | 0 | 0 | + | + |
| Acetic acid >5% | + | - | + | + | - | + | + | + | + | - | - | + | 0 | + | + | + |
| Acetone | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Alcohol | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | + | + | + | + | + |
| Ammonia 10 % | + | 0 | + | + | 0 | + | + | + | + | 0 | 0 | + | + | + | + | + |
| Antifreeze | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Caustic potash solution 20% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | + | + | - | - | - | - | - |
| Citric acid 10% | - | - | - | - | - | - | - | - | - | - | - | + | + | + | + | + |
| Concentrated formic acid | - | - | - | - | - | - | - | - | - | - | - | + | - | 0 | + | + |
| Concentrated phosphoric acid | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Concentrated silicon oil | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cooling lubricant, water-dilutable | + | 0 | + | + | 0 | + | + | + | + | + | + | + | + | + | + | + |
| Diesel/heating oil | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 | + |
| Edible oil/vegetable oil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | + | + | + | + | + |
| Ethanol | - | - | - | - | - | - | - | - | - | - | - | + | + | + | + | + |
| Freon | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | 0 |
| Gear oil | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 | + |
| Glycerine (glycol) | + | 0 | + | + | 0 | + | + | + | + | + | + | + | + | + | + | + |
| Glycol ether | - | - | - | - | - | - | - | - | - | - | - | + | + | + | + | + |
| Hydraulic oil | 0 | - | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | + | - | 0 | + | + |
| Hydrochloric acid 5% | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Hydrogen peroxide 3% | + | - | + | + | - | + | + | + | + | - | - | + | + | + | + | + |
| Ketones | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 | 0 |
| Lyes, diluted | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Methanol | - | - | - | - | - | - | - | - | - | - | - | + | - | 0 | + | + |
| Methyl ethyl ketone | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Motor oil, mineral and synthetic, +140°C | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 | + |
| Motor oil, mineral and synthetic | - | - | - | - | - | - | - | - | - | - | - | + | - | 0 | + | + |
| Naphtha | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Nitric acid 5% | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Paint thinner | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | + | + |
| Paraffin oil | - | - | - | - | - | - | - | - | - | - | - | + | + | + | + | + |
| Petrol (92 to 100 octane) | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Phosphoric acid 5% | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Salt water/seawater | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sodium hydroxide solution 20% | - | - | - | - | - | - | - | - | - | 0 | 0 | + | 0 | 0 | + | + |
| Sulphuric acid 5% | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |
| Toluene | - | - | - | - | - | - | - | - | - | - | - | + | 0 | + | + | + |
| Water | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Water, +90°C | + | - | + | + | - | + | + | + | + | - | - | + | + | + | + | + |
| Xylem | - | - | - | - | - | - | - | - | - | - | - | + | 0 | 0 | + | + |

+ = resistant 0 = limited resistance - = not resistant

Instructions for use:

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

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

Surface preparation

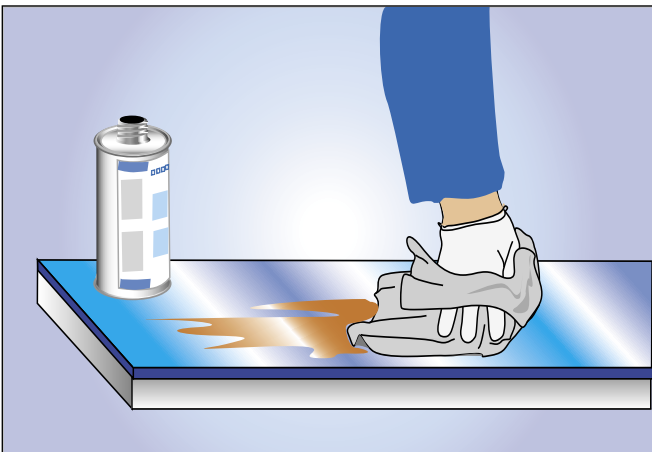
The surfaces must be clean and grease-free. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner.



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

Surface pretreatment

Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer). Detailed information on this subject is contained in the Primer selection table on Page 10.



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

Application

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

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



Joining the parts to be bonded

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

Curing

All elastic one-component adhesives and sealants from WEICON cure under the influence of humidity. The curing process starts at the surface and proceeds toward the inside.

At 50 % relative humidity and +23°C, the cure speed is approx. 3 mm in the first 24 hrs.

Adhesive bonds of big surfaces and high layer thicknesses cure more slowly since the humidity can not penetrate so fast to the inside if the outer layers have already cured.

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

Resistance

WEICON elastic one-component adhesives and sealants are resistant to a large number of media when applied properly and after complete curing (see table on Page 16).

Storage

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

Application examples



Flex 310 M HT 200 - Sealing of a joint gap with subsequent powder coating



Flex 310 M Classic - Bonding/sealing in the model construction sector



Flex 310 M Super-Tack - Fixing of lines



Speed-Flex - Automated application during the production of doors for refrigerators in supermarkets



Flex 310 M Crystal - Bonding of blue-dyed glass on MDF panels



Speed-Flex - Bonding of stainless-steel plates on wood



Flex 310 M Crystal - Renovation of balconies on old buildings



Speed-Flex - Bonding of wall panelling for the interior decoration of buildings



Flex 310 M Classic - Gold-anodised stainless-steel panels as wall panelling



Fast-Bond - Bonding of hard foam panels on aerated concrete



Silicone F - Protective cap of black silicone for spark plug connectors



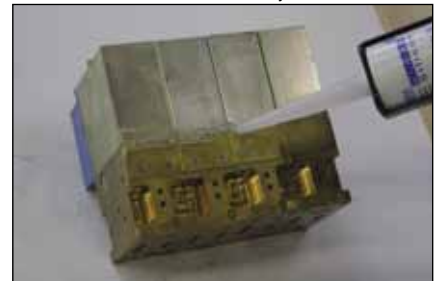
Flex 310 M Classic - Sealing on a filling plant in an ice-cream factory



Fast-Bond - Bonding a pipe clamp anchor into aerated concrete



Speed-Flex - Signs on a filling plant for gas



Silicone A - Sealing a control unit



HT 300 - Sealing on heating systems



Fast-Bond - Bonding of baseboards



Flex 310 M Classic - Steel spiral staircase step (step plate of granite)



Elastic One-Component Adhesives and Sealants

- flexible • strong • durable

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