Elastic adhesives and sealants
**Silicones**

# Silicone LP

NSF
Nonfood Compounds
Program Listed **S2**
Registration **158659**

## Acetoxy curing | drinking water approval

WEICON Silicone LP is an acetoxy curing and permanently elastic adhesive and sealant. It is resistant to chemicals, ageing, weathering and UV radiation and has a high temperature resistance up to +180°C (+365°F). It adheres very well to steel, aluminium, glass, plastics and many other materials.

Silicone LP was developed specially for use in sensitive areas. It can be used as sealant in the food and drinking water sector, for example in dairies, slaughterhouses, in the food and beverage production or in canteen kitchens.

Tested by the Ruhr Region Institute of Hygiene ("Hygiene-Institut des Ruhrgebiets") according to the Guideline for Hygienic Assessment of Organic Materials in Contact with Drinking Water (KTW Guideline) by the Federal Environment Agency.

**Technical Data**

| | | |
|---|---|---|
| Base | | 1-C. polysiloxane (acetate) |
| Texture | | pasty |
| Paintable | | no |
| Cure type | | moisture-curing |
| Stability/run-off | ASTM D 2202 | 1.0 mm |
| Density | | 1,0 g/cm³ |
| Curing condition | | from +5°C to +40°C and 30% to 95% relative air humidity |
| Processing temperature | | +5°C to +35°C |
| Curing speed | in the first 24 h | 2-3 mm |
| Skin-over time | | 10 min. |
| Gap bridging up to max. | | 5 mm |
| Max. sealing joint width | | 25 mm |
| Tensile strength | ISO 37 / S3A | 1,4 N/mm² |
| Elongation at break | ISO 37, S3A | 575 % |
| Elongation at 100 % | ISO 37 S3A | 0,5 N/mm² |
| Movement absorption max. | | 25 % |
| Volume change | DIN 52451 | < -6 % |
| Hardness (Shore A) | DIN ISO 7619 | 25±5 |
| Temperature resistance | | -40°C to +180°C |
| Thermal conductivity | | 0,2 W/m·K |
| Building material class | DIN 4102 | B 2 |
| Shelf life | | 12 mon. |

**Approvals / Guidelines**

| | |
|---|---|
| Hygiene Institute | UBA silicone transition recommendation |

## Surface pre-treatment

Surfaces must be clean and free of grease. Many surface soilings, such as oil, grease, dust and dirt can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend Cleaner Spray S; for removing old colour residues or adhesive residues, WEICON Sealant and Adhesive Remover is ideal. Most materials can be bonded to and among each other. For certain materials or special requirements, we recommend the use of a bonding agent (primer). Mechanical surface pre-treatment e.g. by grinding or sanding can also improve the adhesion considerably.

## Processing

Application methods Cartridge gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing systems. Joining the components In order to guarantee and ideal wetting, the bonding parts need to be joined, before the adhesive skins over (skin-over time).

## Storage

When unopened and stored in normal climate (+23°C and 50 % rel. air humidity), WEICON Elastic Adhesives and Sealants have a shelf life of 12 months.

## Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

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

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# Silicone LP

## Accessories

| | |
|---|---|
| 10025241 | V-Joint Nozzle, 1 PCE |
| 10033114 | Compressed Air Cartridge Gun, 1 PCE |
| 10020751 | Cartridge Gun Special, 1 PCE |
| 10000441 | Cartridge Gun, 1 PCE |

## Available sizes

| | |
|---|---|
| 10060604 | Silicone LP, 310 ml, colourless, transparent |
| 10053997 | Silicone LP, 310 ml, white |

## Conversion table

| | |
|---|---|
| (°C x 1.8) + 32 = °F | Nm x 8.851 = lb·in |
| mm/25.4 = inch | Nm x 0.738 = lb·ft |
| µm/25.4 = mil | Nm x 141.62 = oz·in |
| N x 0.225 = lb | mPa·s = cP |
| $N/mm^2$ x 145 = psi | N/cm x 0.571 = lb/in |
| MPa x 145 = psi | kV/mm x 25.4 = V/mil |

To the product detail page:

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