

# Silicone F



## Liquid | self-levelling | neutral cure

The coating and casting compound WEICON Silicone F is liquid, self-levelling, spreadable, solvent-free, neutral-curing, weathering-, ageing-, and temperature-resistant up to +180 °C (+356 °F) and suitable for universal use.

It can be used for elastic bonds, insulation and impregnation and even for the sealing and casting (max. 10 mm) of technical components. It adheres well to steel, aluminium, glass, ceramics, and many other materials.

The product can be used in machine and system construction, in plastic processing, the energy and electrical industry, in exhibition construction and shopfitting, and in many other industrial areas.

### Technical Data

|                               |   |                       |
|-------------------------------|---|-----------------------|
| Base                          | 1-C. polysiloxane (oxime)                           |                       |
| Colour                        | transparent, colourless                             |                       |
| Texture                       | liquid  |                       |
| Paintable                     | no  |                       |
| Cure type                     | moisture-curing                                     |                       |
| Viscosity                     | 30.000 mPa·s  |                       |
| Density                       | 1,03 g/cm <sup>3</sup>                              |                       |
| Curing condition              | from +5°C to +40°C and 30% to 95% rel. air humidity |                       |
| Processing temperature        | +5°C to +40°C                                       |                       |
| Curing speed                  | in the first 24 h                                   | 2 -3 mm               |
| Skin-over time                | 15 min.   |                       |
| Gap bridging up to max.       | 3 mm  |                       |
| Tensile strength              | ISO 37 / S3A  | 1,8 N/mm <sup>2</sup> |
| Elongation at break (tensile) | ISO 37, S3A   | 600 %                 |
| Elongation at 100 %           | ISO 37 S3A  | 0,2 N/mm <sup>2</sup> |
| Movement absorption max.      | 20 %  |                       |
| Volume change                 | DIN 52451   | 4 %                   |
| Hardness (Shore A)            | DIN ISO 7619  | 10±5                  |
| Temperature resistance        | -50°C to +180°C                                     |                       |
| Thermal conductivity          | 0,2 W/m·K   |                       |
| Resistance                    | 1·10 <sup>14</sup> Ω·m                              |                       |
| Dielectric strength           | 17,0 kV/mm  |                       |
| Building material class       | DIN 4102  | B 2                   |
| Shelf life                    | 12 mon.   |                       |

### 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 an 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.

#### 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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## 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](http://www.weicon.com)) must be observed.

## 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

- 10000492 Silicone F, 310 ml, transparent, colourless

To the product detail page:



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