

# 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
Can be painted	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 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
Minimum shelf life	at room temperature 12 mon.

## Approvals / Guidelines

MIL-Spec	complies with	MIL-A-46146
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## 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.

## Application

### 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

Store in the unopened original container at room temperature. Avoid sources of heat and direct sunlight.

### 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
- 10101992 Clip Nozzle Green Tube, 1 PCE, transparent

## Available sizes

- 10000492 Silicone F, 310 ml, transparent, colourless

To the product detail page:



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