

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.

Characteristics

Base	1-C. polysiloxane (oxime)	
Texture	liquid	
Colour	transparent, colourless	
Cure type	moisture-curing	
Can be painted	no	
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	12 mon.

Processing

Curing condition	from +5°C to +40°C and 30% to 95% rel. air humidity	
Curing speed	in the first 24 h	2 -3 mm
Viscosity	30.000 mPa·s	
Density	1,03 g/cm ³	
Gap bridging up to max.	3 mm	

Curing

Skin-over time	15 min.
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Mechanical properties after curing

Tensile strength	ISO 37	1,8 N/mm ²
Elongation at break (tensile)	ISO 37, S3A	600 %
Elongation at 100 %	ISO 37 S3A	0,2 N/mm ²
Movement absorption max.	20 %	
Hardness (Shore A)	DIN ISO 7619	10±5
Volume change	DIN 52451	4 %

Thermal parameters

Temperature resistance	-50°C to +180°C
Thermal conductivity	0,2 W/m·K

Electrical parameters

Resistance	1·10 ¹⁴ Ω·m
Dielectric strength	17,0 kV/mm

Surface Pre-Treatment

Surfaces must be clean and free of grease. Many surface soiling, 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 an 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.

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.

Accessories

10025241	V-Joint Nozzle, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10000441	Cartridge Gun, 1 PCE
10101992	Clip Nozzle Green Tube, 1 PCE, transparent
10059792	Pressure gun Airflow 3, 1 PCE

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.

Silicone F

Available sizes

10000492 Silicone F, 310 ml, transparent, colourless

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