

Silicone HT 300



High-temperature-resistant | acetoxo-curing

WEICON HT 300 is red, high-temperature-resistant (+300 °C / +572 °F), free of solvents, strong, and acetoxo-curing. It is resistant to weathering, ageing and chemicals and is extremely elastic (breaking elongation of approx. 300%).

The product is particularly suitable for heat-exposed bonds and seals and adheres very well to steel, aluminium, glass, ceramics and many other materials.

The adhesive and sealant can be used in industrial furnaces, flue gas systems, heating installations, exhaust gas routing, heating cabinets and in many additional areas.

Technical Data

Base	1-C. polysiloxane (acetate)	
Colour	red	
Texture	pasty	
Can be painted	No	
Cure type	moisture-curing	
Stability/run-off	ASTM D 2202	1.0 mm
Density	1,18 g/cm ³	
Curing condition	from +5°C to +40°C and 30% to 95% rel. air humidity	
Processing temperature	+5°C to +35°C	
Curing speed	in the first 24 h	2 -3 mm
Skin-over time	8 min.	
Gap bridging up to max.	5 mm	
Max. sealing joint width	25 mm	
Tensile strength	ISO 37 / S3A	2,5 N/mm ²
Elongation at break (tensile)	ISO 37, S3A	300 %
Elongation at 100 %	ISO 37 S3A	0,9 N/mm ²
Movement absorption max.	15 %	
Volume change	DIN 52451	< -6 %
Hardness (Shore A)	DIN ISO 7619	30±5
Temperature resistance	-40 °C to briefly +280 °C (approx. 2 h) +300 °C	
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	12 mon.

Approvals / Guidelines

ISSA Code	75.634.20/21
IMPA Code	815282/83
MIL-Spec	complies with MIL-A-46146

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

Processing Cartridge

gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing systems. Squeeze out by hand, close tube again immediately after use, opened tubes should be used up as quickly as possible

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).

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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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
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

10005243	Silicone HT 300, 85 ml, red
10104027	Silicone HT 300, 280 ml (Green Tube), red
10104059	Silicone HT 300, 280 Set, red
10104250	Silicone HT 300, 280 ml (plastic bag), red

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