

Silicone HT 300



High-temperature-resistant | acetoxy-curing

WEICON HT 300 is red, high-temperature-resistant (+300°C /+572°F), free of solvents, strong, and acetoxy-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	
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	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
Shelf life	12 mon.	

Approvals / Guidelines

ISSA Code	75.634.20/21
IMPA Code	815282/83

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

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).

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.

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

10000432	Silicone HT 300, 310 ml, red
10005243	Silicone HT 300, 85 ml, red

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 HT 300

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Black-Seal Special Silicone



Extremely resistant against oil and grease

WEICON Black-Seal is black, high-temperature-resistant (+280°C/+536°F), free of solvents, strong, oil-resistant, grease-resistant, pressure-resistant, resistant to ageing and extremely elastic (breaking elongation of approx. 500%). It is suitable for bonding and sealing in applications where particularly high oil and grease resistance is required. The product can be used on gearbox, valve and casing covers, oil sumps, water pumps, gears and axles, flanges, tanks and containers, and in many other areas.

Technical Data

Base	1-C. polysiloxane (acetate)	
Colour	black	
Solid content	96 %	
Cure type	moisture-curing	
Stability/run-off	ASTM D 2202	1.0 mm
Density	1,06 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	7 min.	
Gap bridging up to max.	5 mm	
Max. sealing joint width	25 mm	
Tensile strength	ISO 37 / S3A	2 N/mm ²
Tensile strength of the pure adhesive and sealant	ISO 37	2 N/mm ²
Elongation at break (tensile)	DIN 53504/ASTM D412	500 %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	0,7 N/mm ²	
Elongation at break	ISO 37, S3A	470 %
Tear resistance	DIN 53515 / ASTM D 1002	4 kN/m
Elongation at 100 %	ISO 37 S3A	0,7 N/mm ²
Movement absorption max.	15 %	
Volume change	DIN 52451	-9 %
Hardness (Shore A)	DIN ISO 7619	30±5
Temperature resistance	-60 °C to briefly +280 °C (approx. 2 h) +300 °C	
Thermal conductivity	0,2 W/m·K	
Resistance	2,5 x 10 ¹⁵ Ω·m	
Dielectric strength	21,0 kV/mm	
Building material class	DIN 4102	B 2
Shelf life	12 mon.	

Approvals / Guidelines

ISSA Code	75.634.24/25/26
IMPA Code	815248/85/86

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.

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Black-Seal Special Silicone

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. Squeeze out by hand, close tube again immediately after use, opened tubes should be used up as quickly as possible Processing Presspack Remove tamper-evident seal. Regulate discharge by smooth turning of the cap from min. to max. Press the lever and process the medium. After having turned the cap into the “min.” position the valve closes automatically and the product flow is stopped. 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

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Instructions for use

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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

- 10000763 Black-Seal Special Silicone, 200 ml, black
- 10022221 Black-Seal Special Silicone, 310 ml, black
- 10022222 Black-Seal Special Silicone, 85 ml, black

To the product detail page:



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