Elastic adhesives and sealants
Silicones

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.

Characteristics		
Base		1-C. polysiloxane (acetate)
Texture		pasty
Colour		red
Cure type		moisture-curing
Can be painted after		No
Stability/run-off	ASTM D 2202	1.0 mm
Building material class	DIN 4102	B 2
Minimum shelf life	Presspack / Green Tube	18 mon.
Processing		
Curing condition		from +5°C to +40°C and 30% to 95% rel. air air humidity
Curing speed	in the first 24 h	2 -3 mm
Density		1,18 g/cm³
Max. sealing joint width		25 mm
Gap bridging up to max.		5 mm
Curing		
Skin-over time		8 min.

Mechanical properties after curing		
Tensile strength	ISO 37	2,5 N/mm²
Elongation at break (tensile)	ISO 37, S3A	300 %
Elongation at 100 %	ISO 37 S3A	0,9 N/mm²
Movement absorption max.		15 %
Hardness (Shore A)	DIN ISO 7619	30±5
Volume change	DIN 52451	< -6 %
Thermal parameters		
Temperature resistance		-40 °C to briefly +280 °C (approx. 2 h) +300 °C
Approvals / Guidelines		
ISSA Code		75.634.20/21
IMPA Code		815282/83
MIL-Spec	complies with	MIL-A-46106B Group III Type 1

Surface pretreatment

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

Cartridge Application

Hand-operated caulking gun for 310 ml cartridges, pneumatic caulking gun; we recommend only a piston-rod version (WEICON pneumatic caulking gun), automatic dispensing systems.

Mini Sausage Pack Application

Hook the tube key onto the center of the mini sausage pack's clip. Remove the safety tab. Then continue turning the cap – this will cut the mini sausage pack open. Open the cap and dispense the material by turning the tube key.

Joining the Adhesive Parts

To ensure optimal wetting, the adhesive parts must be joined before the first skin forms on the adhesive (skin formation 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) must be observed.

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

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

To the product detail page:

Chemical resistance after curing* (Excerpt)

Acetaldehyde	-	Methanol	o
Acetone	o	Methyl ethyl ketone (MEK)	o
Formic acid >10 % (methanoic acid)	o	Lactic acid 40 %	+
Ammonia 10 %	+	Engine oil min./synth.	o
Ammonia, anhydrous	-	Sodium carbonate (soda)	+
Aniline	-	Sodium hydroxide solution 10 %	o
Petrol (92-100 octane)	-	Phosphoric acid 5 %	o
Acetic acid 10 %	+	Nitric acid <5%	o
Acetic anhydride	-	Hydrochloric acid <10 %	o
Ethanol	+	Concentrated hydrochloric acid	-
Ethylene glycol	+	Salt water / Sea water	+
Antifreeze	+	Sulphuric acid 10 %	+
Gear oil	-	Concentrated sulphuric acid	-
Glycerine / Glycol	+	Silver nitrate	+
Hexane	-	Cooking oil / vegetable oil	+
Hydraulic oil	o	Toluene	-
Isopropanol	+	Water	+
Potassium hydroxide 10 %	+	Tartaric acid	+
Potassium hydroxide 20 %	-	Xylene	-
Potassium salt dry	+	Citric acid 10 %	+
Coolant, aq.	+	Heating oil, diesel	-

+ = resistant 0 = for a limited time (preliminary tests or resistance tests are recommended) - = not resistant *Storage was carried out at a chemical temperature of +20°C.

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