

SILICONE HIGH TEMP

HEAT RESISTANT SILICONE SEALANT.



PRODUCT DESCRIPTION

Heat resistant silicone sealant for bonding and sealing joints which are exposed to high temperatures. Heat resistance: max. 300°C.

FIELD OF APPLICATION

Bison High Temp is the best choice for bonding and sealing joints, seams and cracks in places where excellent heat resistance is required. Bonds very well to glass, enamel, tiles, glazed ceramics and smooth metals. Excellent for bonding and sealing oven and microwave windows, (ceramic) hot plate borders, heat exhaust systems, flues and fireplace heat screens (also suitable as liquid gasket in automotive applications).

PROPERTIES

- Heat resistant up to 250°C after complete cure and up to 300°C temporarily (approx. 1 hour)
- Easy to use
- Not paintable
- Sealant may expand when in contact with grease, oil, coolant or fuels

PREPARATION

Working conditions: Use only at temperatures between +5°C and +40°C.

Safety: 1101050, 1101056, 1101060, 1101203, 1301430, 1301480, 1301490, 1301520, 1501053, 1501059, 1501102, 1501106, 1501431, 1590256, 6301130, 6301148, 6301425, 6301643, 6302152, 6302198, 6302748, 6305326, 6305325, 6306017

Condition of materials: Joints must be clean, dry, and free of dust, rust and grease. Pretreat absorbent surfaces and synthetics with Bison Silicone Primer.

Preliminary treatment: For a neat result, use masking tape along sides of joint. To avoid three-sided bonding, first fill joint with foam backer rod or PE foil.

Tools required: Sealant gun.

APPLICATION

Coverage: 1 cartridge for approx. 8 m., joint size 6x6 mm

Directions for use:

Use sealant gun to handle cartridge. Open cartridge by cutting off plastic nipple above screw thread with a sharp knife. Attach nozzle to cartridge and cut it slantwise at desired bead size. Ensure joint is between 6 and 20 mm. Joint depth depends on joint width. Up to 12 mm, keep to a joint depth of 6 mm. Above that, joint depth is half the size of joint width. Fill joint evenly with sealant and tool within 5 minutes with a putty knife wetted with a soap solution or with a wet finger. Remove masking tape immediately after tooling.

Stains/residue: Remove fresh stains immediately with white spirit. Cured sealant can only be removed mechanically.

Points of attention: Silicones cure under the influence of air humidity. Contact with air humidity is therefore essential during curing.

CURE TIMES

Skin over time: approx. 5 minutes.

Cure rate: approx. 2 mm/24 hrs

* Curing time may vary depending on a.o. surface, product quantity used, humidity level and ambient temperature.

TECHNICAL PROPERTIES

Water resistance: Very good

Temperature resistance: -40°C to +270°C continually, peak load up to 300°C.

UV resistance: Very good

Chemicals resistance: Very good

Paintability: Not paintable

Elasticity: Very Good

Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Base: Silicone elastomer

Colour: Red

Viscosity: Pasty

Density: approx. 1,03 g/cm³

Flash point: K3 (>55°C)

Hardness (Shore A): approx. 25

Elasticity E-modulus: approx. 0,52 MPa

Elongation of rupture: approx. 130 %

SHELF LIFE

At least 24 months after date of manufacture. Limited shelf life after opening. Store well-closed in a dry, frost-free place at a temperature between +5°C and +25°C.