



BOSS[®] HIGH TEMP RTV SILICONE SEALANT (BLUE-A)

TECHNICAL DATA

Basis	Polysiloxane
Consistency	Stable paste
Curing System	Moisture curing
Density (g/ml)	1.27 ± 0.02
Skin Formation Time* (22°C/45-55% R.H.) (min)	5-15
Tack Free Time (22°C/45-55% R.H.) (min)*	<13
Curing Rate * (22°C/45-55% R.H.) (mm/24 hours)	2.5-3
Flow, Sag or Slump	NIL
Hardness, Shore A, Points** (ISO 868)	30-35
Tensile Strength, (N/mm ²)** (ISO 37)	1-2
Elongation** (%) (ISO 37)	>400
Maximum Allowed Distortion (%) (ISO 11600)	25
Temperature Resistance** (°C)	-40 to+ 250

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

** This information relates to fully cured product.

Description

BOSS[®] Hi-Temp RTV Silicone Sealant is a one-part, non-slumping paste that cures to a tough, rubbery solid at room temperature on exposure to water vapour in the air. This silicone product was formulated to perform at temperatures ranging from -40°C to 200°C for continuous operation and upto 260°C for intermittent exposure. It can be used for numerous sealing and bonding applications.

Properties

- Non-Corrosive
- Neutral cure/low odour
- Medium modulus
- Excellent adhesion to vinyl, wood, steel, aluminum, glass and plastic
- VOC Compliant
- Permanently flexible
- Waterproof/weatherproof

Applications

- Sealing and encapsulating heating elements in appliances
- Automotive gasketing
- Moving oven belts
- Industrial ovens
- Bag filters on smoke stacks
- Critical bonding, sealing, potting, encapsulating and protective coating where parts must perform at high temperatures

Packaging

Packaging: 85g tubes & other sizes available on request.

Colours: Blue.



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Shelf life

When stored in original unopened containers at or below 90°F (32°C), BOSS[®] Hi-Temp RTV SILICONE SEALANT has a shelf life of 18 months from date of manufacturing.

Substrates

Substrates: All usual building substrates, no pvc, not suitable for concrete.

Nature: Rigid, clean, dry, free of dust and grease.

Surface preparation: Porous surfaces should be primed with Primer 150. No primer needed for non-porous substrates. There is no adhesion on PE, PP, PTFE (Teflon[®]) and bituminous substrates. We recommend a preliminary adhesion test on any substrate.

Joint dimensions

Min. width for joints: 5 mm

Max. width for joints: 30 mm

Min. depth for joints: 5 mm

Recommendation sealing jobs: joint width = 2 x joint depth

Application method

BOSS[®] Hi-Temp RTV Silicone Sealant is supplied ready-to use. Under pressure it flows readily from its container. The paste- like consistency makes it easy to work; a spatula or wooden paddle can be used for tooling the surface. The cure progresses inward from the surface. At conditions of least 77°F (25°C) and 50% relative humidity, the sealant forms a tack-free skin within 15 minutes. Tooling is not practical after this skin begins forming and should be completed within 5 to 10 minutes of application, even though this may require alternate periods of applying and tooling. Likewise, if masking tape has been used to mark off the area, it should be removed before the tack-free skin forms.

Health and safety recommendation

DIRECT CONTACT OF UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOUR MAY IRRITATE EYES, NOSE, AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. IN CASE OF EYE CONTACT, flush eyes with water for 15 minutes. Obtain medical attention. IN CASE OF SKIN CONTACT, remove from skin and flush with water. KEEP OUT OF THE REACH OF CHILDREN.

Remarks

- Not recommended for applications involving prolonged submersion in water, including aquariums
- Not recommended for surfaces that require painting
- Not recommended for totally confined spaces, as sealant needs atmospheric moisture for curing
- Do not use for structural glazing

Disclaimer: This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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