



BOSS® HIGH TEMP RTV SILICONE SEALANT

TECHNICAL DATA	
Uncured	
Density	1.02 ± 0.02(g/ml)
Colors	Red, Grey
Flow, Sag or Slump	NIL
Skin Formation Time* (22°C / 50% R.H)	8-15min.
Curing Rate* (22°C / 50% R.H)	3mm / 24 hours
Cured-Physical	
Elongation	>700%
Durometer Hardness, Shore A, points	20-25
Tensile Strength, N/mm ²	1.8-2.4
Maximum Allowed Distortion	25%
Service Temperature	-40°C to 150°C

* 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 vapor in the air. This silicone product was formulated to perform at temperatures ranging from -40°C to 150°C for continuous operation and to 260°C for intermittent exposure. It can be used for numerous sealing and bonding applications.

Benefits

- 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

How to use

Applying the Material: Tack-Free Time 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.

Cure time

Cure time is affected by relative humidity, degree of confinement and cross-sectional thickness of the sealant. Sections up to 1/8" thick become rubbery solids in about 24 hours at (25°C) and 50 percent relative humidity. Less moisture content reduces it slightly. In 24 hours, sections up to 1/8" thick cure to a rubber when a Shore A durometer hardness levels off to about 25 points.



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In applications which may be partly or totally confined during cure, the time required for proper cure is generally lengthened by the degree of confinement. It is possible, with absolute confinement, that cure will not be completed.

The result is the softening of the sealant at elevated temperatures. Metal-to-metal bonds should not overlap more than one inch. Every application involving confinement during cure should be thoroughly tested before commercialization. Curing time increases with the thickness of the sealant. A 1/2" cross-section, for example, may require 3 or 4 days for complete solidification. However, the cure will have penetrated the outer 1/8" in about 24 hours. Adheres to glass, metal or most woods.

Storage and 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 12 months from date of manufacture. Containers should always be sealed when not in use and stored away from direct sunlight and weather. Rotation of stock is an absolute necessity. Cartons should always be stacked upright with the nozzle tip pointed upwards. DO NOT stack cartons on their side. NEVER stack cartons more than 8 high. DO NOT store within 1 meter (4 feet) of roof line of the warehouse or storage building.

Caution

DIRECT CONTACT OF UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOR 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.

Packaging

BOSS® Hi- Temp RTV Silicone Sealant is available in 25gms, 33gms and 85gms aluminum tubes. Other sizes available upon request.

Users please read

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization. The supplier warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind. Suggestions of uses should not be taken as inducements to infringe any patents.

Shipping Limitations

None.

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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