BOSS® 376 Hi-Temp Silicone



TYPICAL PROPERTIES	
Flow/Slump	NIL
Extrusion Rate (1/8" orifice, 90 psi)	335 g/min.
Cure Characteristics - exposed to air, 77°F (25°C) and 50% RH	
Skin-over time	5-8 min.
Tack-free time	20 min.
Cure time (1/8" thickness)	24 hrs.
As Cured - after 72 hours at 77°F (25°C) and 50% RH	
Durometer, Shore A	30 points
Tensile Strength	325 psi
Elongation	475%
Unprimed adhesion (most substrates)	Good
Service Temperature	-40°F to 500°F
Application Temperature	-35°F to 140°F

DESCRIPTION

BOSS® 376 Hi-Temp HVAC/R Silicone is a one-part, non-slumping paste that cures to a tough, rubbery solid at room temperature on exposure to vapor in the air. This silicone was formulated to perform at temperatures ranging from -40°F to 500°F (-40°C to 260°C). It can be used for numerous sealing and bonding applications.

HOW TO USE

BOSS® 376 Hi-Temp HVAC/R Silicone 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 at least 75°F (24°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 crosssectional thickness of the sealant. Sections up to 1/8" thick become rubbery solids in about 24 hours at 77°F (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 levels off to about 32 points.

In applications where **BOSS® 376** 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. Adhered to glass, metal or most woods, **BOSS® 376** has a typical peel strength of 20 lbs. per inch after 72 hours at room temperature.

The odor given off during cure is due to the liberation of acetic acid. This odor disappears as the cure progresses, and is not detectable after the cure is complete.

Continued...

ISO Certified



TECHNICAL DATA SHEET

APPLICATIONS

- Sealing and encapsulating heating elements in appliances
- Stove and furnace vent pipes
- Moving oven belts
- Industrial ovens
- Bag filters on smoke stacks
- Other critical bonding, sealing, potting, encapsulating and protective coating where parts must perform at high temps
- MANY MORE...

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Information on this data sheet is subject to change without notice and should not be used for writing specifications. For additional information on specific applications contact Soudal Accumetric.

BOSS® 376 Hi-Temp Silicone





1. Thoroughly clean and degrease metal and plastic surfaces, then rinse all except plastic, with acetone. Rubber surfaces should be roughened with sandpaper, then wiped with acetone. Follow the precautions given on solvent container label.

2. Apply BOSS® 376 to the prepared surface in a uniform thickness. Best adhesion is obtained with a 15 to 30 mil glue line. In those cases where the adhesive is used between surfaces, put the second surface in place, using enough pressure to displace the air but not the adhesive.

3. Let the unit stand undisturbed at room temperature to cure.

Sealing: Using BOSS® 376 in sealing applications follows approximately the same stepby-step procedures as outlined for bonding applications. After preparing the surface and priming where required, the sealant is applied by forcing it into the joint or seam to obtain full contact between sealant and surfaces.

SPECIFICATIONS

- NSF Standard 51
 - UL Recognized

- TT-S-00230C
- ASTM C-920 Type S, Grade NS, Class 25, Use G, A, M, O
- FDA/USDA requirements for use in establishments operating under Federal Meat and Poultry Inspection Program. When cured and washed, ingredients remaining or which could migrate to food are listed on FDA Regulation No. 21 CFR 177.2600

• TT-S-001543A

CLEAN UP

Uncured sealant can be easily removed using a solvent such as alcohol or acetone. For an environmental and health friendlier choice use BOSS® 893 Biggie Wipes. If the sealant is cured it must be removed mechanically by cutting and scraping.

SHIPPING LIMITATIONS

None | Reactive VOC 23 g/l (<3% wt.)

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 only outdoors or in a well ventilated area. 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. Sealant releases acetic acid (vinegar-like odor) during cure. KEEP OUT OF THE REACH OF CHILDREN. For safe handling information on this product, consult the Safety Data Sheet (SDS).

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), BOSS® 376 has a shelf life of 12 months from date of shipment. In countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. 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 roofline of the warehouse or storage building.

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.



TECHNICAL DATA SHEET

COLORS

PACKAGING

• 10.1 oz. Cartridges

upon request

• Other sizes available

• Red

Limited Warranty: Buyer assumes all risks of use, handling and storage of product not in strict accordance with label directions. Liability for any incidental or consequential damage or loss is specifically excluded at all times. Any implied warranty of merchantability or fitness for particular use is excluded. Seller will not accept liability for more than product replacement.



Soudal Accumetric

MADE IN U.S.A.

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