

# BOSS® 330 Hi-Temp Red Neutral Cure Silicone

### BOSS® 330 Hi-Temp Red Neutral Cure Silicone Sealant

Type .... one part, neutral cure, non-slumping silicone paste  
Cure ..... cures at room temperature  
by reaction with moisture in the air  
Special Properties ..... performs at temperatures ranging  
from -85°F to 500°F (-65°C to 260°C) for continuous  
operation and to 600°F (316°C) for intermittent exposure  
Primary Uses ..... bonding, sealing, potting,  
encapsulating and protective coating operations where  
parts must perform at high temperatures

### TYPICAL PROPERTIES

#### As supplied

Color ..... Red  
Specific Gravity ..... 1.03  
Extrusion Rate (1/8" orifice, 90 psi) ..... 358 g/min.

#### Cure Characteristics – exposed to air, 77°F (25°C) and 50% RH

Skin-over time ..... 3 min.  
Tack-free time ..... 23 min.  
Cure time (1/8" thickness) ..... 24 hrs.

#### As Cured –after 72 hours at 77°F (25°C) and 50% RH

Durometer, shore A ..... 22 points  
Tensile strength ..... 208 psi  
Elongation ..... 430%

\*Optimum adhesion is obtained in 7 to 10 days curing time.  
Use A-120 prime coat if increased adhesion is required.

\*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 Accumetric, LLC



### DESCRIPTION

BOSS® 330 Hi-Temp Red Neutral Cure 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 -85°F to 500°F (-65°C to 260°C) for continuous operation and to 600°F (316°C) for intermittent exposure. It can be used for numerous sealing and bonding applications.

### USES

- HVAC flue vents and assemblies
- Sealing and encapsulating heating elements in appliances
- Flanged pipe joints
- Manufacturing of furnaces
- Industrial ovens and boilers
- Bag filters on smoke stacks
- Other 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® 330** Hi-Temp Red Neutral 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 at least 77°F (25°C) and 50% relative humidity, the sealant forms a tack-free skin within 20 minutes. Tooling is not practical after this skin begins forming and should be completed within 10 to 15 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 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 hardness levels off to about 22 points.

In applications where **BOSS® 330** 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.

## 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® 330** Hi-Temp Red Neutral Cure Silicone Sealant is available in 10.3 fl. oz. cartridges, 5 gallon pails and 55 gallon drums. Other sizes available upon request.

## STORAGE AND SHELF LIFE

When stored in original unopened container at or below 90°F (32°C), **BOSS® 330** Hi-Temp Red Neutral Silicone Sealant has a shelf life of 12 months from date of shipment. Containers should always be kept sealed when not in use. After a container has been opened and the entire contents have not been used, extrude 3/8" of material past nozzle opening. When ready to use pull out cured plug. Sealant is ready to use.

## SHIPPING LIMITATIONS

None.

## 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.

MADE IN U.S.A.

# **BOSS® PRODUCTS**

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