



BOSS[®] 312 RTV Industrial Silicone Sealant

TYPICAL PROPERTIES

Uncured

Colors clear, white, black, aluminum,
bronze and almond

Slump NIL

Tack-Free Time at 77°F (25°C) and 50% RH 10-20 min.

Cured – Physical

7 Days at 77°F (25°C) and 50% RH (1/8" thickness)

Elongation 500

Durometer, Shore A 30

Tensile Strength 350 psi

Movement Capacity ±25%

Extrusion Rate 400 gr/min.

VOC 30 grams/liter

*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[®] 312 RTV Industrial Silicone Sealant is a premium one-part acetoxycure adhesive sealant which can be used to meet a variety of sealing and gasketing needs. This product cures to silicone rubber and adheres to glass, wood, metal, porcelain, ceramic tile, painted surfaces and rubber. A primer may be required for optimum adhesion to some surfaces.

BOSS[®] 312 RTV Industrial Silicone Sealant has good resistance to weathering, vibration, moisture, ozone and extreme temperatures. It may be applied in sub-zero weather without loss of extrusion or physical property characteristics. Fully cured **BOSS[®] 312** can be used for extended periods at temperatures up to 400°F (204°C).

USES

- Seal heating, ventilating or air conditioning duct work
- Sealing cracks or gaps around windows, vents, ducts, fixtures and lights
- Seal leaks in gutters, downspouts, ducts and piping
- Seal cracks in interior walls and ceilings, door joints and fixtures
- Seal out water from compartments in machinery or appliances
- Seal around freezer doors and windows to prevent frost and condensation from forming
- Seal electrical connections and boxes to waterproof



- Seal joints and cracks in the roofs and sides of truck trailers
- Seal stainless steel food service equipment
- Seal electrical controls, instruments, motors, fans and machinery to keep out dust, dirt and moisture
- Make quick sheet metal patches
- Seal wall-floor and wall-ceiling seams
- Seal windows in oven doors and flues on gas appliances, flanged pipe joints and access doors
- Adhering auto and appliance trim, including metal, fabric and fabric-backed plastics
- Sealing trailers, truck cabs
- Filleting and caulking joints in sheet metal stacks, ductwork and equipment housings
- Bonding gaskets in heating and refrigeration units
- Sealing marine cabins and windows
- Antiabrasion coating
- Bonding signs and sign letters
- Attaching screwless brackets or nameplates and tacking plastic materials to metal
- Formed-in-place gasket for gear boxes, compressors and pumps

HOW TO USE

Applying the Material: Tack-Free Time

BOSS® 312 RTV Industrial 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 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 room temperature and 20 percent relative humidity. Less moisture content reduces it slightly.

Sealing

Using **BOSS® 312** RTV Industrial Silicone Sealant in sealing applications follows approximately the same step-by-step procedures as outlined for bonding applications. After preparing the surface and priming where required, the sealant is applied by forcing it in the joint or seam to obtain full contact between sealant and surfaces.

SPECIFICATIONS

BOSS® 312 meets the following specifications:

- NSF Standard 51
- UL Recognized
- 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 (silicone building sealant)
- TT-S-00230C (one component building sealant)
- ASTM C-920-86

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. Sealant releases acetic acid (vinegar-like odor) during cure. KEEP OUT OF THE REACH OF CHILDREN.

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), **BOSS® 312** RTV Industrial Silicone Sealant 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.

SHIPPING LIMITATIONS

None.

Reactive VOC 29 g/l (<3% wt)

COLORS

BOSS® 312 is available in a variety of colors including clear, white, black, aluminum, bronze and almond.

PACKAGING

BOSS® 312 RTV Industrial Silicone Sealant is available in standard caulking cartridges and 4.5 gallon pails. 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 users exclusive remedy and the suppliers 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.

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