



RUTLAND® Products

600°F RTV High Heat Silicone Sealant

Item 76B, 76R, 76RT

Features

- Forms a permanent, elastic rubbery seal
- Cures by a reaction with moisture in the air
- Use indoors or outdoors
- Available in Black or Red
- Seals in gases and smoke
- Remains flexible even in high temperatures
- No harsh odor
- Excellent chemical resistance
- Meets or exceeds: Fed. Spec. TTS-001543C Class A, TTS-00230C Class A, ASTM C 920-86.

Recommended Uses

Ideal for use on chimney caps, fireplace inserts, pellet stoves, glass fireplace doors, zero clearance units and solar paneling. Use it anywhere the best hi-temp silicone is required. It adheres to glass, metal, plastic, fiberglass, aluminum, wood, brick, slate, fabric and stone. Great for use in hot tubs.

General Description

Rutland 600°F RTV High Heat Silicone Sealant is a neutral-cure (no odor) ultra-performance sealant. It forms a tough rubbery seal, and keeps its flexibility even in heat environments up to 550°F continuous and 600°F intermittently for one hour. The perfect choice for use in confined areas because it does not have a harsh odor.

Limitations

It cannot be painted. Keep out of direct contact with flame. Constant heat aging at 600°F results in a slight reduction in product hardness and elongation specifications. Not self leveling. Powder coating will not stick to the silicone. Not mildew resistant. Will not adhere permanently to polyurethane. Does not meet any UL ratings.

Product Information

Surface Prep and Application:

Surface must be clean, dry and free of dirt, oil and grease.

Remove cap and cut nozzle to desired size opening at an angle. If using cartridge, puncture inner seal and put cartridge in a standard caulking gun. Apply by pushing sealant ahead of nozzle. It cures tack-free in minutes, and fully cures in approximately 24 hours.

Shear strength averages >14 pounds per inch. Silicones have low thermal conductivity. 76R has red iron oxide pigment in it. Remains flexible down to -45°F. UV stable and the silicone will not fade with sun exposure. Will adhere to galvalume steel after curing for 48 hours. Non corrosive to copper or galvanized metal.

The adhesion strength (peel) pounds per inch:

Glass: 10+2 ppi

Aluminum (Primed): 8+2 ppi

Mortar (Primed): 12-2 ppi.

Product Usage Key:



Indoor



Outdoor



Pellet Stove



Gas Fireplace



Fireplace



Woodstove

Typical Physical Properties	
Application Temperature: 30°F - 100°F	Elongation: 400%
Flashpoint: 250°F minimum	Joint movement capability: ±25%
Tooling Time: 5 minutes	Hardness: (Shore A) 30
Tack-free Time: 12 minutes	Tensile Strength: 280 psi
Cure Time: Usually 24 hours, optimal adhesion after 3 days	Odor: Slightly sweet smelling
Color; Dark Red: 76R, 76RT Black: 76B	Storage/Handling: Store below 90°F

Clean Up:

Uncured product may be cleaned up with water. When cured, it requires mechanical removal.

Coverage:

- 55 feet of 3/16" bead per 10.3 fl oz. cartridge

Warranty & Limited Remedy:

This product will be free from defects in material and manufacture for a period of eighteen (18) months from the date of manufacture. Rutland Fire Clay Company makes no other warranties including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining whether the Rutland Fire Clay Company product is fit for a particular purpose and suitable for user's application. If this Rutland Fire Clay Company product is defective within the warranty period stated above, your exclusive remedy and Rutland Fire Clay Company's sole obligation shall be, at Rutland Fire Clay Company's option, to replace the Rutland Fire Clay Company product or refund the purchase price of the Rutland Fire Clay Company product.

Limitation of Liability:

Except where prohibited by law, Rutland Fire Clay Company will not be liable for any loss or damage arising from this Rutland Fire Clay Company product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory.

Cautions:

Direct contact with 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 with water for at least 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush skin with water.

KEEP OUT OF REACH OF CHILDREN

Please direct all inquiries regarding performance of this product to:

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