13M350

Technical Data Sheet

PRODUCT DESCRIPTION

Stove Bright® RTV Silicone Sealant is a one-part acetoxy silicone sealant/adhesive used in applications where high-temperature resistance is required. Stove Bright® RTV HT can withstand continuous exposure of up to 500°F with intermittent exposure to 600°F. Stove Bright® RTV HT adheres to most building substrates including glass, wood, porcelain, ceramics, painted surfaces, as well as a variety of plastics and metals.

Color: Red Oxide

- Stove and furnace vent pipes
- Oven and wood stove window seals
- Industrial ovens
- Appliance trim
- Sealing and encapsulating heating elements
- Industrial bag filters on smokestacks
- High-temperature applications in and around food processing and storage
- Other sealing, bonding, and gasketing applications where parts must perform at high temperatures
- 50+ year durability
- High-temperature performance
- +/- 25% joint movement
- NSF-51 certified for contact with food
- Prolonged water immersions
- Structural Silicone glazing
- Porous surfaces, such as masonry
- Non-paintable

TYPICAL PHYSICAL PROPERTIES

Typical Uncured Properties

Uncured State	Glossy paste
Application Temperature	-25ºF to 120ºF (-31.7ºC to 48.9ºC)
Tooling Time	5 to 7 minutes
Full Cure Time	24 to 48 hours

Typical Cured Properties

Curing conditions of 75°F (24°C) and 50% relative humidity

Cured State	Rubbery solid
ASTM-C920	Meets ASTM-C920 “Standard Specification for Elastomeric Sealants”
NSF/ANSI-51 Certified	Meets NSF/ANSI-51 Certification for food contact
Service Temperature:	55ºF to 500ºF continuous/ 600ºF intermittent, (12.78ºC to 204.4ºC)continuous / 315.55ºC intermittent
Paintability:	Non-paintable
Joint Movement Capability:	+/- 25% Joint movement

FORREST Technical Coatings
1011 McKinley Street
Eugene, OR 97402 USA
www.forrestpaint.com
info@forrestpaint.com
Ph: (800) 537-7201
(541) 342-1821

APPLICABLE STANDARDS & SPECIFICATION

SPECIFIED DIVISIONS

- Section 07 90 00 - Joint Protection
- Section 07 92 00 - Joint Sealants
- Section 22 00 00 - Plumbing
- Section 23 00 00 - Heating, Ventilating, and Air Conditioning (HVAC)
- Section 26 00 00 - Electrical

APPLICABLE STANDARDS/SPECIFICATIONS

- ASTM-C920 - Standard Specification for Elastomeric Sealants
- NSF/ANSI-51: Food Equipment Materials & Related Food Equipment Standards
- FDA & USDA requirements
- Federal Specs: TT-S-01543A, TT-S-00230C

ECOSEAL STANDARDS

- V.O.C. Content: 30 g/L
- CDPH SM / CA Section 01350 Emissions Testing for LEED v4 Compliance

SURFACE PREPARATION

Paint does not adhere well to silicone. Complete painting prior to silicone application. Clean debris and dry desired area. Surfaces should be clean of any debris or material that may prevent or deter adhesion. Such debris includes, but is not limited to: dirt, frost, loose particles, existing sealants, grease, oils, rust, etc.

APPLICATION

1. Remove tip and nozzle. Cut off tip the of the cartridge, puncture inner foil seal, and replace the nozzle. Screw nozzle on end and cut tip to desired bead size. Insert cartridge into standard caulk gun.

2. Hold at a 45º angle and apply by pushing sealant ahead of the nozzle to achieve a smooth seal. Apply using a steady, even pressure to completely bridge joints.

3. Complete tooling within 5 minutes. Use a dry paper towel to remove access material. Smooth caulk using a wet finger or a damp cloth for a clean, neat appearance.

4. Sealant normally “skins over” in 5 minutes, dries to touch in 1 hour, and cures and bonds in 24 hours. Allow 7 day cure time to reach maximum strength.

Cleanup

Excess caulk should be cleaned from tools and nonporous surfaces while still uncured. On porous surfaces, product should be allowed to progress through the initial set-up, at which time removal is possible via abrasion or other mechanical means.

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Maintenance

Inspect sealant at a minimum of every five years. If sealant or bond of sealant is damaged, completely remove or cut away sealant in the damaged area, clean surface, and reapply sealant.

STORAGE

The product must be stored in accordance with local and national regulations. Keep the containers in a dry, cool, well ventilated, space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 73°F (23 °C) = 12 months *

*When kept in recommended storage condition and original unopened containers.

CAUTION

KEEP AWAY FROM CHILDREN. Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling. IF ON SKIN: Wash with soap and water. Remove contaminated clothing, washing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF INGESTED: Wash mouth with water. Remove victim to fresh air. Give small quantities of water to drink. Do not induce vomiting. Store locked up. Dispose of contents in accordance with all local, regional, national, and international regulations. NOT CONSIDERED HAZARDOUS BY OSHA HAZARD COMMUNICATION STANDARD

READ SAFETY DATA SHEETS BEFORE USING THIS PRODUCT

DISCLAIMER

The technical data and suggestions for use in this product data sheet are currently correct to the best of our knowledge, but are subject to change without notice. Because application and conditions vary, and are beyond our control, we are not responsible for results obtained in using this product, even when used as suggested. The user should conduct tests to determine the suitability of the product for the intended use under then existing conditions. Our liability for breach of warranty, strict liability in tort, negligence or otherwise is limited exclusively to replacement of the product or refund of its price. Under no circumstances are we liable for incidental or consequential damages.

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