

HI-TEMP SILICONE

High Temperature Red Acetoxy Sealant Technical Data Sheet

Product Description:

Hi-Temp Silicone Red Acetoxy Sealant is a red one-part, non-slumping temperature resistant silicone adhesive sealant designed for sealing and bonding applications with continuous exposure to temperature ranges of -85°F to 500°F and intermittent exposure up to 600°F. It cures to a durable silicone rubber and adheres to a wide variety of substrates.

| Product Features | |
|------------------------------|--|
| NSF 51 Certified | |
| Meets ASTM-C920 | |
| +/- 25% Joint Movement | |
| 50+ Year Durability | |
| Exposure up to 600°F | |
| Remains Permanently Flexible | |
| Low V.O.C. (29 g/l) | |

Hi-Temp Silicone is NSF 51 Certified, making it the superior choice for hi-temperature applications in and around food processing and storage. Hi-Temp Silicone's properties make it suitable for a wide array of applications where parts must perform at high temperatures.

Applications:

- Sealing stove and furnace vent pipes
- Oven and wood stove window seals
- Industrial ovens
- Appliance trim
- Sealing & encapsulating heating elements
- Industrial seals
- High temperature ductwork such as range, vent, and exhaust hoods
- Manufacture and repair of smokers, grills, etc.

Standards & Specifications:

- Meets NSF 51 Certification Criteria
- Meets FDA Reg. No. 21 CFR 177.2600
- Meets Federal Spec TT-S-001543A
- Meets Federal Spec TT-S-00230C
- Meets ASTM-C920 Performance Criteria

EcoSeal Standards:

- V.O.C. Content: 11 g/l
- LEED 2009 (EQ Credit 4.1): 1 point
- NAHB Green Guidelines: 5 G.I. Points
- Complies To: SCAQMD Rule #1168
- OTC-Ozone Trans. Comm.
- CARB
- BAAQMD



Physical Properties:

| | |
|---------------------------|------------------------|
| Chemistry | Acetoxy Silicone |
| Cure Type | Moisture Cure |
| Color | Red |
| Shelf Life | 12 Months |
| Tack Free Time | 5 to 7 Minutes at 75°F |
| Cure Time | 24 to 48 Hours at 75°F |
| Application Temperature | 50°F to 120°F |
| Service Temperature | -30°F to 600°F |
| Water Resistance | Good |
| Mildew Resistance | Good |
| Shrinkage | Low to Moderate |
| Joint Movement Capability | +/- 25% |
| V.O.C. Level | 29 grams / liter |



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Application Procedures:

1. Clean debris and dry desired area.
2. Cut tip off cartridge. Screw nozzle on end and cut tip to desired bead size. Insert cartridge into standard caulk gun.
3. Hold at 45° angle and apply by pushing sealant ahead of nozzle to achieve a smooth seal. Apply using a steady, even pressure to completely bridge joints.
4. Complete tooling within 5 minutes. Use dry paper towler to remove excess material. Smooth caulk using wet finger or a damp cloth for a clean, neat appearance.
5. Sealant normally “skins over” in 5 minutes, dries to touch in 1 hour, and cures & bonds in 24 hours. Allow 7 day cure time to reach maximum strength.

Application Limitations:

- Structural silicone glazing
- Joints where physical abuse or abrasion is likely to be encountered
- Prolonged water immersion
- Porous surfaces, such as masonry
- Building materials that might bleed oils, plasticizers, or solvents - materials such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes.
- Totally confined spaces, as sealant requires atmospheric moisture for cure.
- Surfaces that will be painted, as paint will not stretch with extensions of the sealant and may crack & peel

Clean Up Procedures:

Excess caulk should be cleaned off tools and nonporous surfaces while it is in the uncured state using mineral spirits and a dry cloth or paper towels. Cured compound should be cut away.

Packaging Options:

| Part # | Product Description | Color | Case Quantity |
|---------|--|-------|---------------|
| HTS-100 | Hi-Temp Silicone Red 103. Fl. Oz. Tube | Red | 12 tubes/case |

Caution:

Use only with adequate ventilation. Avoid contact with eyes and skin. Wash hands after using. Do not transfer contents to other containers for storage.

KEEP OUT OF REACH OF CHILDREN



Scan this QR Code to be directed to our online product page, where you can view additional information including Safety Data Sheets and Applicable Testing Documentation

Disclaimer:

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. If when applied as directed, this material peels, cracks or separates, it will be replaced without charge upon presentation of proof of purchase and used cartridge. This limited warranty only applies to residential use and damages including consequential damage and other remedies are excluded. No other warranties apply, including fitness for a particular purpose.