



Industries

100% RTV Silicone HI-TEMP RED

HI TEC HI-TEMP RED Silicone is a high quality, single-component, 100% silicone sealant. It is ideally suited for use in high heat applications such as sealing and encapsulating heating elements in appliances, aerospace, gasketing, moving oven belts, industrial ovens, bag filters on smoke stacks, other critical bonding, sealing, potting, encapsulating and protective coatings where parts must perform at high temperatures. It adheres to metal, glass, marble, tile, ceramic, porcelain, painted surfaces, non-oily woods, and rubber. It can be used as an adhesive for bonding surfaces together.

Typical Properties, As Supplied

RTV.....	Room Temperature Vulcanizing
Colors.....	Red
Specific Gravity at 77° F (25° C).....	1.02
Extrusion Rate (3.18mm orifice, 90 psi air pressure)g/min.....	390
Flow, Sag, Slump.....	NIL
Application Temperature Range, ° F (° C).....	-35 to 140(-37 to 60)
Tooling Time, Minutes.....	5-11
Tack Free Time, Minutes.....	10-20
Cure Time at 77° F (25° C and 50% RH (3.18mm thickness),hrs.....	24

Typical Properties, As Cured (7 days)

Durometer Hardness, Shore A, points (ASTM 2240).....	26
Tensile Strength, Mpa...(ASTM D412).....	2.4
Elongation , percent (ASTM D412).....	600
Brittle Point, F (C)....(ASTM D746).....	-100(-38)
Peel Strength, ppi.....	20
Temperature Range.....	
Continuous operating temperature, max.....	450° F (232° C)
Intermittent operating temperature, max.....	650° F (343° C)

Specifications:

USDA for use in federally inspected meat and poultry plants, FDA reg. #21, CFR 177.2600, TT-S-0015443A (COM-NBS) Class A, TT-S00230C (COM-NBS) Class A MIL-A-46106B Amend. 3, Type 1. Canadian 19-GP-9MA Type 1. Conforms to NSF Standard 51.

Limitations - HI TEC HI-TEMP RED Silicone is not recommended for use in applications involving:

- *Temperatures exceeding 650° F (343° C)
- *Structural silicone glazing
- *Vinyl windows or vinyl siding
- *Prolonged water immersion
- *Porous substrates such as concrete, fiberglass and some plastics.
- *Materials that bleed oils or solvents
- *Surfaces to be painted...conventional paints will not adhere.

Packaging:

HI TEC HI-TEMP Silicone is supplied in a 10.1oz (300ml) caulking cartridge, 7.25 oz pressurized can, 3 oz squeeze tube, 5 gallon pails, and 55 gallon drums.

Warranty and Shelf Life:

Each application should be pre-tested for suitability of this product for the intended use. When stored in the original, unopened container at temperatures less than 90° F(32° C), HI TEC Hi Temp Silicone is guaranteed for one year from date of purchase.

HI TEC Industries
Toll Free 800-457-1313

6100 South Fairfax Rd
Phone 812-824-8000

Bloomington, IN 47401 USA
Fax 812-824-8185
