



US-HT-903

Highest Temperature Silicone RTV Adhesive Sealant Usable to 300°C/572°F for Kilns and Exhausts

US-HT-903 is a fast curing silicone RTV adhesive rubber developed for high temperature applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within an hour. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to metals, glass and ceramics
- Very fast onset of adhesion
- Exceptional high temperature resistance
- Non-corrosive oxime cure
- Temperature range -65 to 300C

Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive Sealant

Color: Copper tone (Custom colors available upon request)

Typical Properties

Uncured:

Viscosity, cps: 400,000 Specific Gravity: 1.28 Consistency : thixotropic paste
 Working time, mins. at Room Temperature: 8
 Tack Free Time, mins. at Room Temperature: 20
 Application Rate, 90 PSI, g/min. >1000 3mm orifice at 0.6 MPa

Cured 72 Hours at Room Temperature

Tensile Strength, PSI: 300 Elongation, %: 350 Durometer, Shore A: 36
 Peel Strength, PPI: 20

HEAT AGED 24 Hours at 300°C

Durometer: 33 (-13%) Tensile: 186 (-38%) Elongation: 245 (-30%)

Method of Application: Dispense sealant onto part and mate parts. Be sure not to squeeze all of the product out of flange assembly. Allow to cure.

Curing: Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

Packaging: Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

Chemical cure system: Oxime cure system

Solids: 98% solids, contains no solvents

Adhesion: Primerless adhesion to most plastics, metals and typical substrates.

Limitations: Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

Handling and safety: For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

Shelf-life: Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70 F.

Applicable standards: Conforms to GM 9985675 and GM low volatility requirements.