



US-HC-459

Heat Cure 1 Part Thixotropic Adhesive Sealant

US-HC-459 is a heat curing silicone RTV adhesive rubber developed for bonding applications requiring fast development of physical properties. This is a 1-part silicone that when applied to the substrate and thermally cured allows handling of the bonded assembly within minutes. Works well in manual and automatic dispensing equipment.

Product Features

- 15 minute cure at 150°C
- Can Cure in Fully Encapsulated Assemblies
- Deep Section Cure
- Will Cure in Lamination Assemblies
- Thixotropic
- 1-Part heat cure RTV
- Temperature range -65°C to +250°C

Product Applications

- Component coating
- Bonds silicone to a variety of other substrates

Chemical cure system

Platinum catalyzed, addition cure system.

Typical Properties

Uncured:

Specific Gravity: 1.04
Color: translucent
Solids: 100 %
Viscosity: 500,000 cps.
Tack Free Time at 150°C: 15 minutes

Cured 15 min at 150C :

Tensile Strength, PSI: 200
Elongation, %: 300
Durometer, Shore A: 15
Thermal conductivity: 0.0005
Coefficient of Thermal Expansion: 20 x 10⁻⁵

Application Methods: Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

Curing: Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

Handling precautions: Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

Solids: 100% solids, contains no solvents

Adhesion: This product offers primer-less adhesion to plastics, metals and typical substrates.

Service temperature: -65°C to 250°C continuous

Limitations: Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

Packaging: Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

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 6 months from the ship date when stored in a cool dry area below 70°F.

Applicable standards: Conforms to GM low volatility requirements.