



# US-HC-12183

## Heat Cure 1 Part Silicone Gel Conformal Coating

heat curing silicone RTV developed for encapsulation and conformal coating applications. This is a 1-Part silicone that when heated to 150°C, cures in less than 30 minutes forming a tough silicone rubber.

### Product Features

- Transparent encapsulant
- Addition cure liquid
- Excellent moldability and conformation to plastic, metal and glass parts
- Convenient 1-Part system
- Fluoresces under UV light for inspection

### Typical Applications

- Electronic component vibration
- Shock and thermal insulation
- Dust and moisture protection
- Dielectric and insulation

**Chemical cure system:** Platinum catalyzed, addition cure system.

### Typical Properties

#### Uncured:

|  |   |                        |
|--|---|------------------------|
| Color: Water white, clear                | Viscosity, cps: 900                     | Specific Gravity: 0.90 |
| Consistency: Self-leveling, light liquid | Pot-life at Room Temperature: 12 months |                        |
| Cure time at 150°C: < 30 minutes         | Odor: none                              |                        |

#### Cured:

|                                   |                  |                   |
|-----------------------------------|------------------|-------------------|
| Shore 00: 60                      | Tensile: 100 PSI | Elongation: 200%  |
| By-products: none                 | Shrinkage: none  | Corrosivity: none |
| Temperature range: -65°C to 250°C |                  |                   |

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

**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 primerless 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 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, a 25 ml syringe, one pound cans, 8 lb. gallon containers and 40 lb. 5 gallon pails. This product is also available in customer defined packaging sizes, 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 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.