



US-SP-5403

Radiator and Charged Air Cooler Sealant Coating Liquid Silicone RTV

US-SP-5403 is a fast curing silicone RTV adhesive rubber developed for radiator sealing applications that require fast development of physical properties and excellent adhesion. This is a two part, 1:1 mix ratio silicone that when mixed and applied to the substrate allows handling of the coated radiator assembly within minutes. When cured the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in static mix dispensing equipment.

Product Features

- Highest OAT Fluid Resistance
- Fast deep section cure
- Self leveling RTV
- Neutral cure
- Excellent unprimed adhesion to metal radiator assemblies
- Convenient 1:1 mix ratio
- Temperature range -65 to 260C
- Long term high temperature stability in the field

Typical Applications

Adhesive sealing of metal parts
 Assembly line coating
 Radiator and charged air cooler adhesive sealer coating

Typical Properties

Uncured

	Part A	Part B	Mix
Color	Gray	White	Silver
Viscosity, cps	10,000	10,000	10,000
Specific Gravity	1.25	1.25	1.25

Consistency mixed: fast gelling liquid Working time, mins at Room Temperature: <10
 Tack Free Time, mins. at Room Temperature: 15

Cured 72 Hrs at Room Temperature

Hardness, Shore A:	30 minutes: 15	24 hours: 25
Tensile Strength, PSI 150	Elongation, % 200	
Peel Strength, PPI 40	Lap Shear Strength, PSI 100	
Thermal conductivity 0.0005	Coefficient of Thermal Expansion 20 x 10 ⁻⁵	
Volume Resistivity: 2.0 X 10 ¹⁴		

Mixing Instructions: The preferred method of mixing and application is through a static mixer at a 1:1 mix ratio by volume. The substrates should be held in place for 10 minutes while the adhesive is curing.

Depth of cure vs time: Very firm deep section cures are formed in 15 minutes. Ultimate cured properties are found in 24 hours.

Packaging: Available in 18 lb. kits, 90 lb. kits and 1000 lb. kits. This product is also available in customer defined packaging sizes, upon request.

Solids: 98% solids, contains no solvents

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

Service temperature: -65C to +260C continuous

Limitations: Allow to fully cure before putting assembly into service.

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.