

US-POT-57 (Identical to US-POT-54 except color)

US-POT-57 is a fast curing silicone RTV adhesives developed for applications requiring fast deep section cures as well as excellent adhesion. This is a two part, 1:1 mix ratio silicones that when mixed and applied to the substrate allows handling within minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. US-POT-57 works well in static mix dispensing equipment.

Product Features

- Self-leveling
- Convenient 1:1 mix ratio
- Excellent unprimed adhesion to most plastics, metal and glass
- Fast deep section cure
- Temperature range -45°C to 260°C
- Neutral cure

Product Applications

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

Chemical cure system: Tin cured alkoxy condensation cure system which is not poisonable like platinum addition cured systems

Typical Properties

Uncured

Parameter	Part A	Part B	Mixed
Viscosity, cps	12,500	17,500	15,000
Specific Gravity	1.30	1.30	1.30
Color: Gray			
Work Time at room temperature:	3 minutes		
Tack free time, room temperature:	15 minutes		

Cured – Room Temperature

Durometer, Shore A:	30 minutes: 15	24 hours: 35	
After 24 hours:			
Tensile Strength, PSI	350	Elongation, %	200
Peel Strength, PPI	40	Lap Shear Strength, PSI	100
Dielectric Strength kv/mm:	21	Dielectric Constant:	3.2
Dissipation Factor at 1kHz:	0.02	Volume resistivity	5 x 10 ¹⁵

Mixing Instructions: Preferred method is through a static mixer at a 1:1 ratio by volume.

Depth of Cure vs Time: Very deep section cures are formed in 15 minutes, Ultimate cured properties in 24 hours.

Handling precautions: Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

Solids: 98% solids, contains no solvents

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

Service temperature: -45°C to +260°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 18 lb kits, 90 lb kits and 1000 lb kits.

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.