



# US-SPG-18417

## Repenetrable 2 Part Low Specific Gravity Encapsulant Silicone Gel

**US-SPG-18417** is a room temperature curing silicone RTV gel developed for electronic applications requiring a repenetrable self-sealing, silicone gel product. This is a two part, 1:1 mix ratio silicone that when mixed at room temperature, cures overnight or when exposed to heat results cures in 15 minutes.

### Product Features

- Self-sealing over a long life
- Excellent repenetrability and conformation to plastic, metal and glass parts
- Convenient 1:1 mix ratio

**Color:** Transparent Blue (custom colors available upon request)

### Typical Applications

- Assemblies requiring inspection with probes
- Electronic component vibration, shock and thermal insulation
- Potting and encapsulation
- Dust and moisture protection in a thick barrier coating
- Transparent dielectric insulation

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

### Typical Properties [Download PDF for Electrical Specifications\\*](#)

Uncured	Part A	Part B
Viscosity, cps	1,000	1,000
Specific Gravity	0.98	0.98

Consistency mixed: light liquid

Pot-life at Room Temperature: >120 minutes

Cure time at Room Temperature: 12 hours

Cure time at 150°C 15 minutes

**Mixing Instructions:** The preferred method of mixing and application is by hand using a 1:1 mix ratio by volume and then degassing. It can also be mixed and dispensed through automatic equipment.

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

**Depth of cure vs time:** In 12 hours, any depth of application filled with this product will be cured and fully encapsulated.

**Solids.** 98% solids, contains no solvents

**Adhesion.** This product offers minimal primerless adhesion to plastics, metals and typical substrates.

**Service temperature.** -65°C to 250°C continuous

**Limitations.** Do not use product on head gaskets or in fuel or solvent 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, 50 ml. dual syringes, one pound kits, 20 lb. kits and 100 lb. kits. 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.