

SILICONE SOLUTIONS

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SS-5061

Product Description

SS-5061 is a room temperature curing silicone RTV gel developed for applications requiring a low specific gravity silicone gel product.

SS-5061 is a two part, 1:1 mix ratio silicone. Room temperature mixing of SS-5061 results in a cure time of 1 hour. SS-5061 can also be heat cured at 150C to yield a cure time of less than 15 minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

Product Features

- ◆ Addition cure liquid
- ◆ Excellent moldability and conformation to plastic, metal and glass parts
- ◆ Convenient 1:1 mix ratio

Color: Light blue
(custom colors available upon request)

Typical Applications

- ◆ Electronic component vibration, shock and thermal insulation
- ◆ Potting and encapsulation
- ◆ Dust and moisture protection
- ◆ Dielectric and insulation

Chemical cure system

Platinum catalyzed, addition cure system.

Low Specific Gravity Encapsulant Gel

Typical Properties

UNCURED	Part A	Part B
Viscosity, cps	1,000	1,000
Specific Gravity	0.76	0.76

Consistency mixed:	light liquid
Pot-life @ R.T.:	30 minutes
90% cure @ R.T.	45 minutes
Cure time @ R.T.:	1 hour
Cure time @ 150 C	15 minutes

Dielectric Strength, KV/mm	>10
Dielectric Constant	2.8
Dissipation Factor	0.001
Volume Resistivity	1.0×10^{15}
Coefficient of Thermal Expansion	1.0×10^{-3}

Mixing Instructions

The preferred method of mixing and application of SS-5061 is by hand using a 1:1 mix ratio by volume and then degassing. SS-5061 can also be mixed and dispensed through automatic equipment.

Depth of cure vs time

In 1 hour, any depth of application filled with this product will be cured and fully encapsulated.

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

98% solids, contains no solvents

Adhesion

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

Service temperature

-65 to 250C

Limitations

Do not use product on head gaskets, fuel or solvent immersion applications. 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.

Packaging

SS-5061 is available in 50 ml.dual syringes, one pound, 12 lb. and 60 lb. kits.

Shelf-life

Sealed containers are 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.

Limited warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as warranty, either expressed or applied. User shall rely on his own information and tests to determine suitability of the product for the intended use, and the user assumes all risk and liability resulting from the use of this product. Manufacturer's sole responsibility shall be to replace that portion of product of the manufacturer proves to be defective. Manufacturer shall not be liable to the buyer or any third party for injury, loss or damage directly or indirectly resulting from the use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding by the manufacturer.

This product has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses which implantation within the human body is intended.

**** Customized versions available upon request ****