

SILICONE SOLUTIONS

1670-C Enterprise Parkway
Twinsburg, Ohio 44087

Phone (330) 405-4595

Fax (330) 405-4596

SS-151

Product Description

SS-151 is a 1-part, heat cure silicone developed for conformal coating applications. SS-151 offers unprimed adhesion to metals and many plastics. Heated cures result in a tough and durable silicone conformal coating.

Product Features

- ◆ Low Viscosity
- ◆ Neutral Addition Cure
- ◆ Fast heat cure
- ◆ Self-leveling liquid
- ◆ Fluoresces under UV light to enable coating inspection
- ◆ Adhesion to metals and many plastics
- ◆ Convenient 1 part system

Product Applications

- ◆ Coating electronic assemblies
- ◆ Industrial coating and sealing
- ◆ Thin section potting & encapsulation

Chemical cure system

Platinum catalyzed, addition cure system.

Heat Cure Conformal Coating

Typical Properties

UNCURED

Specific Gravity	0.98
Color	Clear
Solids	100 %
Shelf Life	12 MONTHS
Viscosity	125 cps.
Tack Free Time @ 110C	15 minutes

CURED - R.T.

Cured - 20 mins. @ 110C	
Dielectric Strength	
kv/mm	13
Dielectric Constant	2.4
Dissipation Factor	
@ 1kHz	0.01
Volume Resistivity	2.0 X 10 ¹⁴
Thermal conductivity	0.0005
Coefficient of Thermal Expansion	20 x 10 ⁻⁵

Application Methods

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

Curing

Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

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 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

SS-151 is available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging 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 are guaranteed for 12 months 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 implied. 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 ****