

SILICONE SOLUTIONS

1670-C Enterprise Parkway
Twinsburg, Ohio 44087

Phone (330) 405-4595

Fax (330) 405-4596

SS-3045

Product Description

SS-3045 is a heat curing, high strength silicone adhesive rubber developed for applications requiring fast development of physical properties and excellent adhesion. SS-3045 is a 1-part silicone that when applied to the substrate and thermally cured allows handling of the bonded assembly within minutes. SS-3045 works well in manual and automatic dispensing equipment.

Product Features

- ◆ Fast Heat Cure
- ◆ Thixotropic Paste
- ◆ Excellent Unprimed Adhesion to Metals and Glass
- ◆ Temperature range -45 to 260C

Product Applications

- ◆ Assembly Line Adhesive
- ◆ Form in Place Gaskets
- ◆ Adhesive Sealant

Chemical cure system

Platinum catalyzed, addition cure system.

1-Part Heat Cure High Strength Adhesive Sealant

Typical Properties

UNCURED

Specific Gravity	1.08
Color	translucent
Viscosity	500,000 cps.
Consistency	thixotropic paste
Tack Free Time @ 150C	15 minutes
Working time, mins @ R.T.:	> 7 days
Application Rate, 90PSI , g/min:	250

CURED 15 min @ 150C

Tensile Strength, PSI	600
Elongation, %	450
Durometer, Shore A	30
Dielectric Constant	2.8
Dielectric Strength, V/mil	>500
Volume Resistivity	2.0×10^{14}
Dissipation Factor	0.001
Thermal conductivity	0.0005
Coefficient of Thermal Expansion	20×10^{-6}

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

This is a Platinum Cure system product. The catalyst can be deactivated by exposure to sulfur containing compounds like thiols, sulfides, sulfates, organic rubber containing sulfur, nitrogen containing compounds like amines, amides, imides, azides, tin metals or compounds, or tin cured RTV's.

Solids

100% solids, contains no solvents

Adhesion

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

Service temperature

-45 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

SS-3045 is available in 10.3 oz. cartridges, 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 ****