

SILICONE SOLUTIONS

1670-C Enterprise Parkway
Twinsburg, Ohio 44087

Phone (330) 405-4595

Fax (330) 405-4596

SS-18 and SS-19

Product Description

SS-18 and SS-19 are fast curing silicone RTV adhesives developed for applications requiring fast deep section cures as well as excellent adhesion. SS-18 and SS-19 are both 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. SS-18 and SS-19 both work well in static mix dispensing equipment.

Product Features

- ◆ SS-18 is gray and self-leveling
- ◆ SS-19 is black and thixotropic
- ◆ Fast deep section cure
- ◆ Neutral cure
- ◆ Excellent unprimed adhesion to most plastics, metal and glass
- ◆ Convenient 1:1 mix ratio
- ◆ Temperature range -65 to 260C

Typical 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.

Fast Cure Adhesive Silicone RTV's

Typical Properties

UNCURED

	<u>SS-18</u>	<u>SS-19</u>
Viscosity, cps	15,000	20,000
Specific Gravity	1.3	1.3
Consistency	liquid	thixotropic
Color	gray	black
Working time, mins @ R.T.:	3	3
Tack Free Time, mins. @ R.T.:	15	15

CURED - R.T.

Hardness, Shore A	
30 minutes	15
24 hours	35
Cured -24 Hrs. @ R.T.	
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	.02
Volume Resistivity	5x10 ¹⁵

Mixing Instructions

The preferred method of mixing and application of SS-18 and SS-19 is through a static mixer at a 1:1 mix ratio by volume.

Depth of cure vs time

Very firm deep section cures are formed in 15 minutes. Ultimate cured properties are found in 24 hours.

Solids

98% solids, contains no solvents

Adhesion

Primerless adhesion to most plastics, metals and typical substrates.

Service temperature

-65 to 260C

Limitations

Do not use product on head gaskets or in a fuel immersion application, and allow to fully cure before putting assembly into service. Insure enough product remains between flanges to be effective in an assembly.

Packaging

SS-18 and SS-19 are available in 18 lb. kits, 90 lb. kits and 1000 lb. kits. This product is also available in customer defined packaging sizes, upon request.

Compatibility

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

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 6 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 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 ****

