

# R1-3930-11

## Fluorosilicone adhesive/sealant/coating

### DESCRIPTION

- A gray, two-part, RTV silicone
- Supplied in a 6 oz tube with a quart of solvent/flattening agent
- Federal Color Standard 36118 (flat gray)
- 100 mole % fluorosilicone

### APPLICATION

- For coating, sealing, and bonding applications requiring solvent and/or fuel resistance
- Can be further dispersed for spraying applications
- Bonds aggressively to most surfaces
- For protecting or bonding hardware components exposed to gasoline or aviation fuels

### PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
<b>Uncured Part A:</b>				
Appearance	Gray	-	ASTM D2090	002
Consistency	Thixotropic	-	-	-
Tack Free Time	20 minutes	-	ASTM C679	005
<b>Cured Part A: 72 hours at ambient temperature and humidity</b>				
Specific Gravity	1.42	-	ASTM D792	003
Durometer, Type A	35	-	ASTM D2240	006
Tensile Strength	680 psi	4.7 MPa	ASTM D412	007
Elongation	325 %	-	ASTM D412	007
Tear Strength	45 psi	7.9 kN/m	ASTM D624	009
<b>Cured Part A: 7 days at ambient temperature and humidity</b>				
Lap Shear Strength (primed)	290 psi	2.0 MPa	ASTM D1002	010

## INSTRUCTIONS FOR USE

### Mixing

Dispense 6 oz tube into solvent/flattening agent and mix until homogenous. Accomplish additional dilution for spray applications by adding appropriate solvent. Take care to hold the tube nozzle below the surface of the solvent in order to limit the exposure to atmospheric moisture to achieve maximum work time.

### Cure Time

Curing or vulcanization time depends upon the thickness of the silicone adhesive layer, relative humidity, and accessibility of atmospheric moisture to the curing adhesive. For sections of typical thickness, a relative humidity level between 20-60% is recommended to cure the adhesive at room temperature. Cure continues for several days until acetic acid odor has disappeared.

Note: Some bonding applications may require the use of a primer. Contact NuSil Technology LLC for information on available primers.

## OPERATING TEMPERATURE

The operating temperature range of a silicone in any application is dependent on many variables, including but not limited to: temperature, time of exposure, type of atmosphere, exposure of the material's surface to the atmosphere, and mechanical stress. In addition, a material's physical properties will vary at both the high and low end of the operating temperature range. This type of silicone typically remains flexible at extremely low temperatures and has been known to perform at -65°C (-85°F) as well as resist breakdown at elevated temperatures up to 250°C (482°F). The user is responsible to verify performance of a material in a specific application.

## SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written

### Packaging

6 oz Kit (0.333 kg)

### Warranty

12 Months

warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.

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NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please [contact](#) NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheet and [contact](#) NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

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