

# R-3975

## RTV fluorosilicone dispersion

### DESCRIPTION

- One-part RTV silicone elastomer dispersed in tert butyl acetate
- Based on a fluorosilicone copolymer

### APPLICATION

- For coating, sealing and bonding applications requiring solvent and/or fuel resistance
- Designed for spraying, dip casting, and RTV curing of thin, elastomeric films
- For use as a coating to minimize ice adhesion
- Bonds aggressively to most surfaces
- Slight addition of heat will accelerate cure

### PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
<b>Uncured:</b>			
Appearance	Translucent	ASTM D2090	002
Viscosity	1,625 cP (1,625 mPas)	ASTM D1084, D2196	001
Non-Volatile Content	36%	ASTM D2288	004
<b>Cured: 72 hours at ambient temperature and humidity</b>			
Specific Gravity	1.29	ASTM D792	003
Durometer, Type A	20	ASTM D2240	006
Tensile Strength	400 psi (2.8 MPa)	ASTM D412	007
Elongation	470%	ASTM D412	007
Tear Strength	35 pli (6.2 kN/m)	ASTM D624	009

The test data shown for this material is the average value for typical properties. All of these properties may not be tested on a lot to lot basis and cannot be used to draft specifications. Please [contact](#) NuSil® for assistance and recommendations in establishing limits for product specifications.

## INSTRUCTIONS FOR USE

### Mixing

Thoroughly mix prior to use and/or further solvent addition. Exercise care to prevent solvent loss during deairing. Accomplish additional dilution for thin film applications by adding appropriate solvent, followed by mixing and deairing.

Warning: Consult the MSDS for R-3975 prior to use as the solvent carrier is hazardous.

### Surface Preparation

Clean the surface with an organic solvent (e.g. tert butyl acetate). Follow solvent cleaning with an IPA wipe. Wait 15 minutes until all the solvent has evaporated before the application of any materials. If applicable, apply adhesion promoter (primer) such as NuSil SP-120 or SP-121 and allow 30 minutes for the adhesion promoter to cure. Keep the surface clean and free of dust and particulates until the dispersion is applied.

## 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. Silicone typically remains flexible at extremely low temperatures and has been known to perform at -50°C (-58°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 typical properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil for assistance and recommendations in establishing limits for product specifications.

## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil provides a specific written warranty of fitness for a particular use, NuSil's sole warranty is that the product will meet NuSil's then current

### Packaging

1 Pint (0.475 kg)  
1 Gallon (3.64 kg)

### Warranty

12 Months

specification. NuSil 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'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 expressly disclaims any liability for incidental or consequential damages.

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NuSil believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. The user is responsible to determine the material's suitability and safety of use. NuSil cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil makes no warranty concerning fitness for any use or purpose. NuSil has completed no testing to establish safety of use in any medical application.

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