

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
Uncured:			
Appearance	Translucent	ASTM D2090	002
Viscosity	1,625 cP (1,625 mPas)	ASTM D1084, D2196	001
Non-Volatile Content	60%	ASTM D2288	004
Cured: 72 hours at ambient temperature and humidity			
Specific Gravity	1.29	ASTM D792	003
Durometer, Type A	25	ASTM D2240	006
Tensile Strength	425 psi (2.9 MPa)	ASTM D412	007
Elongation	400%	ASTM D412	007
Tear Strength	35 psi (6.2 kN/m)	ASTM D624	009

Properties tested on a lot-to-lot basis. 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.

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 Technology 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 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 warranty of fitness for a particular use, NuSil Technology's sole

Packaging

1 Pint (475 g)
1 Quart (910 g)
1 Gallon (3.64 kg)

Warranty

12 Months

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.

WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology 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 Technology 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 Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

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.

PATENT / INTELLECTUAL PROPERTY WARNING

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology does not warrant the use or sale of the products described herein will not

infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.