

R-1082

RTV cure silicone dispersion

DESCRIPTION

- One-part RTV silicone elastomer dispersed in xylene

APPLICATION

- For potting, encapsulating, backfilling, and dampening applications requiring a firm gel with optical clarity

PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Uncured:				
Appearance	Clear to translucent. Light straw to slight bluish tint.	-	ASTM D2090	002
Non-Volatile Content	29%	-	ASTM D2288	004
Viscosity	700 cP	700 mPas	ASTM D1084, D2196	001
Cured: 5 days (+4/-0) hours at ambient temperature and humidity (remove from chase at 24 ± 2 hours)				
Specific Gravity at 25°C (77°F)	1.09	-	ASTM D792	003
Durometer, Type A	25	-	ASTM D2240	006
Tensile Strength	1,425 psi	9.8 MPa	ASTM D412	007
Elongation	950%	-	ASTM D412	007
Tear Strength	125 psi	22.0 kN/m	ASTM D624	009
Stress at 300% Strain	160 psi	1.1 MPa	ASTM D412	007

*GCA Precision Penetrometer, 19.5 gram shaft, 1 inch diameter, 5 seconds.

INSTRUCTIONS FOR USE

Mixing

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

Warning: Consult the MSDS for R-1082 prior to use as the solvent carrier is hazardous.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of material being deaerated. Hold vacuum until bulk deaeration is complete.

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 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

Packaging

1 Pint (450 g)
1 Gallon (3.4 kg)
5 Gallon (17.0 kg)

Warranty

12 Months

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.

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