

# MED-2214

Silicone Dispersion

## Product Profile

**NuSil Technology**1050 Cindy Lane • Carpinteria, CA 93013  
805/684-8780 • 805/566-9905 Fax  
www.nusil.com

An ISO 9001 Certified Company

### Description

- Fully compounded, platinum-catalyzed, siloxane elastomer dispersed in xylene
- Heat-cured to form strong, thin, elastomeric films
- Excellent physical properties
- Usable life can be extended with refrigeration

### Applications

- For fabricating variously shaped elastomeric parts by brushing, spraying, or dipping
- Used for making membranes or cast film

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
<b>Uncured:</b>				
Appearance	Translucent	-	D2090	002
Viscosity	3,400 cP	3,400 mPas	D445	001
Non-Volatile Content	35%	-	D2288	004
<b>Cured:</b> 60 min. @ 50°C; 60 min. @ 150°C; Stabilize 3 hours minimum @ ambient temperature and humidity				
Specific Gravity	1.10	-	D792	003
Durometer, Type A	35	-	D2240	006
Tensile Strength	1800 psi	12.4 MPa	D412, D882	007
Elongation	800%	-	D412, D882	007
Tear Strength, die B	185 ppi	33.6 k/Nm	D624	009

### Instructions for Use

Thin MED-2214 to the desired consistency with xylene, the suggested solvent. Mix the material thoroughly before use. Achieve best results by filtering the dispersion appropriately before use. Take care to avoid solvent evaporation and air entrapment.

When using any solvent, always provide adequate ventilation and avoid skin contact. Follow manufacturer's label instructions and refer to appropriate MSDS.

The mold, mandrel, or part being coated with dispersion should be free from contamination, not inhibit the cure, and be able to withstand the cure cycle. Apply the dispersion by brushing, spraying, or dipping. Control the thickness by building up successive, thin (1-2 mil) coats. Allow the bulk of the solvent to evaporate between coats. When the desired thickness is obtained, set aside the coated object and allow the solvent to completely evaporate. Controlled low-humidity conditions will reduce bubbles while coating.

### Caution

MED-2214 will cure in contact with most materials. Exceptions include butyl, latex, chlorinated rubbers, some RTV silicones, and unreacted residues of some curing agents.

### FDA Master Access File

A Master Access File for MED-2214 will be filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master Access File must contact NuSil Technology.

### Packaging

1 Pint (450 g)  
1 Gallon (3.6 kg)  
5 Gallon (18.0 kg)

### Warranty

3 Months

## **Warnings About Product Safety**

NuSil Technology believes the information and the data contained herein are accurate and reliable. However, 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, obtain available product safety information and take the necessary steps to ensure safety of use.

## **Specifications**

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

## **Patent Warning**

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## **Warranty Information**

NuSil Technology's warranty period is 3 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 any other expressed or implied warranty, including 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.