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UK & Ireland Distributor



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MED1-6604

Silicone Dispersion



Creative Partners in a Material World

NuSil Technology

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An ISO 9001 Certified Company

Product Profile

Description

- A 50% THF solvent
- The silicone is polydimethylsiloxane polymer that cures at ambient room temperature and adheres to various substrates

Applications

- For adhesion to metal and other substrates and excellent lubricity for cutting edges
- Easy application from dilute solvent solutions
- Cures on air exposure without elevated temperatures
- Silica filler-free

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Viscosity	250 cP	250 mPas	D1084, D2196	001
Non-Volatile Content	50%	-	D2288	004
Solvent	THF	-	-	-
Cured: 24 hours @ ambient temp. and humidity				
Specific Gravity	0.99	-	D792	003
Durometer, Type A	15	-	D2240	006
Tensile Strength	55 psi	0.35 MPa	D412, D882	007
Elongation	250%	-	D412, D882	007
Tear Strength	13 ppi	2.3 kN/m	D624	009

Instructions for Use

Coating

Apply MED1-6604 by dipping or wiping. Prior to use, pre-dilute material to the desirable concentration for the specific application. Experimentation may be required to determine the optimum concentration for the specific application. Coating thickness varies.

Solubility

MED1-6604 is soluble in many organic solvents including aliphatic and aromatic hydrocarbon solvents, chlorinated solvents and THF. Selection of solvent depends on its ability to wet out the substrate being coated. This fluid is not soluble in water and hydrolyzes rapidly when placed in contact with water. Any solvents used to dilute material must be moisture-free.

Storage

This material cures in the presence of atmospheric moisture. It is recommended that an inert gas, such as Argon or Nitrogen, be used to blanket the product before securely re-closing the container.

Curing

MED1-6604 begins curing on contact with atmospheric moisture once the solvent evaporates. As a result, the material cures to a soft, pliable silicone coating. A minimum of 30% relative humidity is required to effectively cure material. Optimal humidity is 40 – 60% relative humidity.

Packaging

1 Pint (450 g)
1 Gallon (3.6 kg)
5 Gallon (18.0 kg)
55 Gallon (181.1 kg)

Warranty

12 Months

FDA Master Access File

A Master Access File for MED1-6604 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.

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

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any United States' or other country's patents covering the product itself, its use in combination with other products or its use in the operation of any process.

Warranty Information

NuSil Technology's warranty period 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 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.