

DESCRIPTION

- One-part, solvent free silicone coating
- Oxime Cure
- Self Leveling and conformal
- ROHS compliant

APPLICATION

- For applications requiring low volatility and high purity conformal coating
- To provide protection against harsh environments while maintaining good dielectric properties and protection from dust, moisture, vibration and other environmental elements
- Acts as a conformal coating on rigid and flexible circuit boards and adheres to a variety of substrates including metals and plastics
- Compatible to sensitive electronic components such as connectors and switches
- For applications requiring a broader operating temperature range

PROPERTIES

TYPICAL PROPERTIES	AVERAGE RESULT	STANDARD	NT-TM
Uncured:			
Appearance	Translucent	ASTM D2090	002
Viscosity	7,400 cP	ASTM D1084, ASTM D2196	001
Tack Free Time	50 minutes	ASTM C679	005
Cured: 7 days minimum @ ambient temperature and humidity			
Specific Gravity	1.01	ASTM D792	003
Durometer, Type A*	16	ASTM D2240	006
Tensile Strength*	80 psi (0.55 MPa)	ASTM D412	007
Elongation*	200 %	ASTM D412	007
Volatile Content (1 hour at 275°C)*	0.7 %	ASTM D2288	004

TYPICAL PROPERTIES	AVERAGE RESULT	STANDARD	NT-TM
Dielectric Strength*	660 V/mil (25.8 kV/mm)	ASTM D149	243

*Properties are NOT 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

Thoroughly mix for 5 minutes prior to every use, as the product separates. Apply by pouring, spraying, dipping or brushing. Thin with VM&P Naphtha (NuSil Technology R1-1001) to the appropriate viscosity for spray equipment. Mix with a moisture free solvent in a closed container, preferably with a commercial paint shaker.

Inhibition Concerns

Although generally considered to be non-corrosive to most substrates, the oxime cure system may cause discoloration in the presence of copper or copper alloys.

Note: Some bonding applications may require the use of a primer. NuSil Technology SP-120 silicone primer is recommended.

Packaging

- 100 Gram
- 200 Gram
- 1 Pint (455 g)
- 1 Gallon (3.4 kg)
- 5 Gallon (17 kg)

Warranty

- 6 Months

OPERATING TEMPERATURE

In most applications, silicone may be heated from 180 to 200°C for a year, or even up to 450°C for short periods, without any appreciable effect on physical properties. Silicone also demonstrates flexibility at extreme low temperatures, with a stiffening temperature of approximately -115°C.

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. The user is responsible to verify performance of a material in a specific application.

RoHS AND REACH COMPLIANCE

EPM-2850 is compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) regulation contained in Article 4(1) of the European Parliament and Council's Directive 2002/95/EC. RoHS mandates that manufacturers restrict the use of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polychlorinated biphenyls, and polybrominated diphenyl ethers in electrical and electronic equipment.



EPM-2850 is also compliant with the Registration, Evaluation, and Authorization of Chemicals (REACH) regulation (European Union 1907/2006). EPM-2850 does not contain any of the 16 chemicals identified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA), which oversees REACH compliance.

Please [contact](#) NuSil Technology's Regulatory Compliance department with any questions or for further assistance.

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 6 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 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

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