

CV2-1147

Controlled Volatility RTV Silicone Atomic Oxygen Protective Coating

Product Profile

Description

- One-Part silicone dispersion
- Based on a dimethyl diphenyl silicone polymer with a broad temperature range
- Provided as an RTV silicone dispersion in VM&P Naptha

Applications

- For space and electronic applications requiring low outgassing and minimal volatile condensables under extreme operating conditions
- Provides atomic oxygen protection and resistance to radiation and thermal stress

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Chemical Classification	PMQ	-	-	-
Color	Translucent	-	-	-
Non-Volatile Content	55%	-	D-2288	004
Viscosity	1,750 cP	1,750 mPas	D-1084, D-2196	001
Work Time	10 min	-	-	008
Cure Time, 50% R.H. @ 25°C				
Tack Free	1 hour	-	C-679	005
Set Up	24 hours	-	-	-
Cure System	Oxime	-	-	-
Full Cure	7 days	-	-	075
Cured: 7 days @ 25°C (77°F), 50% R.H.				
Appearance	Clear, elastomer	-	D-2090	002
Specific Gravity @ 25°C (77°F)	1.07	-	D-792	003
Collected Volatile Condensable Material (CVCM)	0.03%	-	E 595	072
Total Mass Loss (TML)	0.44%	-	E 595	072
Operating Temperature Range	-178°F to 500°F	-115°C to 260°C	-	-

Instructions for Use

Stir prior to use, as the product separates. Apply by spraying, dipping or brushing. Thin with VM&P Naptha to the appropriate viscosity for spray equipment. Mix with a moisture free solvent in a closed container, preferably with a commercial paint shaker.

Caution: Consult the MSDS for CV2-1147 prior to use, as the solvent carrier is hazardous.

Substrate Considerations

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.

Warnings About Product Safety

NuSil Technology believes that the information and 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

Packaging

1 Pint (400 g)

Warranty

6 Months

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 Sheets 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.

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Warranty Information

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