

CV-1152

Controlled volatility RTV silicone conformal coating

DESCRIPTION

- One-part, flowable, solvent free silicone

Meets or exceeds the ASTM E 595 low outgas specifications outlined in NASA SP-R-0022A and European Space Agency PSS-014-702, with a TML of $\leq 1\%$ and CVCM of $\leq 0.1\%$

APPLICATION

- For industrial or space applications requiring low outgassing and minimal volatile condensables under extreme operating conditions
- As a conformal coating on rigid and flexible circuit boards
- For encapsulating sensitive electronic components such as connectors and switches
- To provide protection against harsh environments while maintaining good dielectric properties
- For applications requiring a broader operating temperature range

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Translucent	ASTM D2090	002
Viscosity	7,300 cP (7,300 mPas)	ASTM D1084, D2196	001
Tack-Free Time	50 minutes	ASTM C679	005
Cured: 7 days minimum at ambient temperature and humidity		ASTM	
Specific Gravity	1.01	ASTM D792	003
Refractive Index	1.43	ASTM D1218, D1747	018
Collected Volatile Condensable Material (CVCM)	0.04%	ASTM E595	072
Total Mass Loss (TML)	0.33%	ASTM E595	072

Properties 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.

ADVANCED TECHNOLOGIES

INSTRUCTIONS FOR USE

Thoroughly mix for 5 minutes prior to every use, as the product separates. Apply by dipping, brushing or spraying.

When applying by spraying:

Thin with VM&P Naphtha ([R-1001](#)) in a closed container with a DASD™ Dual Asymmetric Servo Drive Mixers to the appropriate viscosity for spray equipment.

Recommended Equipment: <https://synergymixers.com/>

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.

Recommended Primer: [SP-120](#)

OPERATING TEMPERATURE

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. This type of silicone typically remains flexible at extremely low temperatures and has been known to perform at -120°C (-248°F) as well as resist breakdown at elevated temperatures up to 300°C (572°F). The user is responsible to verify performance of a material in a specific application.

ROHS AND REACH COMPLIANCE

Please [contact](#) our Regulatory Compliance department with any questions or for further assistance

SPECIFICATIONS

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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

Packaging

100 Gram
200 Gram
1 Pint (455 g)

Warranty

6 Months

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](#) us 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](#) us 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.

ADVANCED TECHNOLOGIES

PATENT / INTELLECTUAL PROPERTY WARNING

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology does not warrant the use or sale of the products described herein will not

infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.

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NO
Bubbles



NO
Blades



NO
Cleanup

Dispensing Solutions

With over 25 years of knowledge in dispensing solutions, we are available to assist you with your dispensing and fine-tune your processes. Our catalogue features precision systems that provide consistent fluid applications, leading to enhanced accuracy, increased yields, decreased material expenses, improved process control, and a safer work environment.

Contact us today to discuss your options:

sales@silicone-polymers.co.uk



Silicone Cleaning & Removal

To ensure a safe and clean environment and to prevent contamination that could impact your silicone in the future, we recommend using the following products on the link below:

[PST- Silicone Cleaning and Removal](#)

Polymer Systems Technology Limited

Unit 2, Network 4, Lincoln Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3RF

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Email: sales@silicone-polymers.co.uk