

# Polymer Systems Technology Limited

UK & Ireland Distributor



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Unit 2. Network 4. Cressex Business Park,  
Lincoln Road, High Wycombe, Bucks. HP12 3RF  
Phone +44 (0) 1494 446610  
Fax: +44 (0) 1494 528611  
Web: <http://www.siliconepolymers.co.uk>  
Email: [sales@silicone-polymers.co.uk](mailto:sales@silicone-polymers.co.uk)



# CF2-1007

Thermal Control Coating / Marking Ink

## 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

- One-part, white, flowable silicone elastomer
- Cures at room temperature when exposed to atmospheric moisture
- Highly emissive and low solar absorption
- Resistance to weathering, moisture, ultra-violet rays, ozone and chemicals

### Applications

- As a thermal coating to protect and seal various substrates
- As a marking ink for silicone rubber parts such as electrical connectors

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Appearance	White, elastomer	-	D2090	002
Solvent Type	VM&P Naphtha	-	-	-
Viscosity @ 25°C (77°F)	1,300 cP	1,300 mPas	D1084, D2196	001
Non-Volatile Content	75%	-	D2288	004
Tack-Free Time	40 minutes	-	C679	005
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-

### Instructions for Use

Thoroughly stir prior to use to ensure a homogenous mixture. Use conventional paint spray equipment to apply CF2-1007 as supplied. However, use lower pressures if the viscosity has been lowered by the addition of a suitable solvent. Apply a smooth coat with a dry film thickness of at least 4-5 mils. Coated surfaces can be handled one to two hours after coating. Allow a five to seven day cure before exposing to extreme conditions or placing in airtight packaging.

### Solvent Addition

CF2-1007 is dispersed in VM&P naphtha. Lower the viscosity of CF2-1007 by adding compatible moisture-free solvents. Among these are xylene, toluene, hexane, and VM&P naphtha. It is important that any solvent added is moisture free. Carry out mixing without introducing moisture from the air into the coating. Accomplish proper mixture by agitating in a closed container on a commercial paint shaker.

### Substrate Considerations

Although the oxime cure system is generally considered non-corrosive to most substrates, discoloration may occur in the presence of copper or copper alloys. Cure reaction may be slowed or inhibited when in contact with or in the presence of alcohol.

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

### Packaging

One Pint (455 g)  
One Gallon (4.2 kg)  
Five Gallon (21 kg)

### Warranty

6 Months

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 for meeting 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 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 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.