

GEL-3500

Fluorosilicone gel

DESCRIPTION

- A two-part, firm fluorosilicone gel
- Available in custom formulations to offer various work times, cure schedules and penetration values to allow matching of processing techniques to production requirements while maintaining the 1:1 mix ratio

APPLICATION

- For applications requiring a gel with solvent resistance

PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Uncured:				
Appearance	Translucent	-	ASTM D2090	002
Viscosity, Part A	12,000 cP	12,000 mPas	ASTM D1084, D2196	001
Viscosity, Part B	10,500 cP	10,500 mPas	ASTM D1084, D2196	001
Work Time	12 hours	-	-	008
Cured: 45 minutes at 150°C (302°F)				
Durometer, Type 00	50	-	ASTM D2240	006
Operating Temperature Range	-85 to 428°F	-65°C to 220°C	-	-

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix Parts A and B in a 1:1 ratio by weight or volume. Obtain a softer gel (high penetration value) by increasing the ratio of Part A to Part B or a firmer gel (lower penetration value) by increasing the ratio of Part B to Part A. Changes in the cure rate can result when deviating from the 1:1 mix ratio. Airless mixing, metering and dispensing equipment is recommended for production processing.

Note: Some bonding application may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Vacuum Deaeration

Removed air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches Hg, to a container rated for use and of volume at least four times that of material being deaerated. Hold vacuum until presence of air is no longer evident.

Substrate Consideration

GEL-3500 will cure in contact with most materials. Exceptions include butyl and chlorinated rubber, some RTV silicones and unreacted residues of curing agents used with a few types of plastics.

Adjustable Cure Schedule

Product cures at room temperature and a wide range of elevated temperatures and cure times to accommodate different production needs. [Contact](#) NuSil Technology for details.

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 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 all

Packaging

50 ml SxS Kit
2 Pint Kit (910 g)

Warranty

12 Months

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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.

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