

FS9-3521

Fluorosilicone adhesive

DESCRIPTION

- Two-part, brown fluorosilicone system
- Offers high tear strength, strong physical properties
Convenient 1:1 mix ratio (Part A: Part B)
- 100 mole % fluorosilicone

APPLICATION

- For applications requiring fuel and solvent resistance
- For applications requiring a broad operating temperature range
- Cures at ambient conditions or rapidly with the addition of heat

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Brown	ASTM D2090	002
Cured: 24 hours at ambient temperature and humidity			
Durometer, Type A	29	ASTM D2240	006
Work time	3 Hours	-	008
Extrusion Rate 60 seconds at 90 PSI. Use SxS kit w/ mixtip for packing specification F2	50g/min	ASTM C603	033
Specific Gravity	1.4	ASTM D792	003
Tensile Strength	750psi (5.2 MPa)	ASTM D412	007
Elongation	300%	ASTM D412	007
Lap Shear Strength (primed w/ SP-273)	280psi (1.9 MPa)	ASTM D1002	008

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.

** Above are average results of properties tested on pilot batches of FS9-3521. The batches tested and the results provided above are believed to be representative of the formulation and processing in the future. However these values may shift slightly as the material is commercialized.

INSTRUCTIONS FOR USE

Mixing

Mix Part A and B in a 1:1 mix ratio by weight. FS9-3521 is ideal for Static mix and dispense application.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of the material being deaerated. Hold vacuum until bulk deaeration is complete.

Inhibition Concerns

Cures in contact with most materials common to electronic assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Units being encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers being used should also be clean and dry. Cure inhibition can usually be prevented by washing all containers with solvent or volatilizing the contaminant by heating.

Note: Some bonding application may require the use of a primer. NuSil Technology SP-273 silicone primer is recommended.

Adjustable Cure Schedule

Product cures at a wide range of temperatures and cure times to accommodate different production needs. Contact NuSil Technology for details.

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 -65°C (-85°F) as well as resist breakdown at elevated temperatures up to 250°C (482°F). The user is responsible to verify performance of a material in a specific application.

ROHS AND REACH COMPLIANCE

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

Packaging

200 ml SxS Kit
400 ml SxS Kit

Warranty

12 Months

SPECIFICATIONS

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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 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.

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