

SFM5-2350

Flame retardant, RTV silicone foam

DESCRIPTION

- Yields a medium density, silicone foam when catalyzed
- Two Parts mix in a convenient 1:1 ratio with a black Part A and white Part B to ensure homogeneous mixtures

APPLICATION

- As a flame resistant seal
- In shock and vibration dampening situations requiring a lightweight, flexible foam with excellent thermal insulation and radiation resistance
- Useful where stability at higher and lower temperatures is required
- For intricate back-filling due to a low viscosity and longer work time

PROPERTIES

Typical Properties	Average Result		Metric Conv.		Standard	NT-TM
	Part A	Part B	Part A	Part B		
Uncured:						
Appearance	Black	Tan to Off-White	-	-	ASTM D2090	002
Specific Gravity	1.15	1.05	-	-	-	-
Viscosity	55,000 cP	50,000 cP	55,000 mPas	50,000 mPas	ASTM D1084, D2196	001
Work Time	23 minutes		-	-	-	008
Cure Time	33 minutes		-	-	-	075
Cured: 45 minutes at 100°C (212°F)						
Specific Gravity	0.35		-	-	ASTM D792	003
Color	Gray		-	-	-	-
Foam Density	25 lb/ft ³		0.400 g/cm ³		ASTM D792, D3574	026
Thermal Conductivity	1.8 x 10 ⁻⁴ cal cm/sec cm°C		-	-	-	-
Dielectric Strength	190 volts/mil		7.48 kV/mm		ASTM D149	-
Volume Resistivity	2.2 x 10 ¹⁵ ohm/cm		-	-	-	-

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix SFM5-2350 prior to catalyst addition ensuring uniformity in the cured foam. Mix Part A with Part B for 30-60 seconds, introducing air while mixing. High-speed agitation with a power mixer results in a lower density foam. Quickly pour the mixed material into the application site. Handle material within about 30 minutes after pouring, allow 24 hours for optimum physical properties. Confining the foam results in a higher specific gravity.

Caution: The cure exhibits an exotherm of 20°C (36°F) and the evolution of hydrogen gas. Exercise appropriate caution, keep away from open flame and use only with adequate ventilation.

Substrate Considerations

Cures in contact with most materials. Exceptions include: unreacted residues of some curing agents, butyl and chlorinated rubbers, and some RTV silicones containing organotin and/or amines.

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

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 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 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.

Packaging

50 mL Side-by-Side Kit
400 mL Side-by-Side Kit
2 Pint Kit (780 g)
2 Gallon Kit (6.2 kg)
10 Gallon Kit (29.0 kg)

Warranty

6 Months

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.

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.