

NuSil Technology

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An ISO 9001 Certified Company

R1-2354

High Strength, RTV Silicone Foam

Product Profile

Description

- Yields a medium density, flame retardant silicone foam when catalyzed
- Translucent Part A and Part B are mixed in an easy 1:1 ratio
- Expands to 2-3 times its original size and cures to an elastomeric foam

Applications

- 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 applications requiring a material with high strength

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Specific Gravity, Part A	1.05	-	D792	003
Specific Gravity, Part B	1.05	-	D792	003
Cured: 10 min @ ambient temperature and humidity				
Specific Gravity @ 25°C (77°F)	0.45	-	D792	003
Color	Translucent	-	-	-
Cell Structure, closed cell	50%	-	-	-
Tensile Strength	100 psi	0.69 MPa	D1002	010
Density, non-confined	40 lbs/ft ³	0.640 g/cm ³	D792, D3574	026

Instructions for Use

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 CF1-135 silicone primer is recommended.

Mixing

Thoroughly mix R1-2354 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 10 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.

Packaging

- 2 Pint Kit (91 g)
- 2 Gallon Kit (7.28 kg)
- 10 Gallon Kit (36.4 kg)

Warranty

6 Months

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 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 Sheets 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.

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