R7-2560

RTV high temperature adhesive/sealant silicone elastomer

DESCRIPTION

- Two-part, pourable, brown RTV silicone
- 100:0.5 Mix Ratio (Base: Curing Agent)

APPLICATION

- For applications requiring extreme temperature and gamma radiation resistance
- For potting, sealing and bonding applications
- For thermal insulating as a firewall sealant or as an ablative coating in missile, rockets, aircraft and launch equipment

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Brown	ASTM D2090	002
Viscosity, Base	150,000 cP (150,000 mPas)	ASTM D1084, D2196	001
Flow (0.5" plunge, 15 seconds)	2.7 inches (6.9 cm)	ASTM D2202	019
Work Time	2.3 hours	-	008
Tack-Free Time	7 hours	ASTM C679	005
Cured: 7 days minimum at ambient temperature and humidity			
Specific Gravity	1.26	ASTM D792	003
Durometer, Type A	50	ASTM D2240	006
Tensile Strength	375 psi (2.6 MPa)	ASTM D412	007
Elongation	110%	ASTM D412	007
Tear Strength	35 ppi (6.2 kN/m)	ASTM D624	009

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.

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix and vacuum deair base and curing agent at 28 inches Hg prior to use. Just prior to use, mix 0.5% by weight curing agent to base. Work Time may be extended by using as low as 0.1% curing agent.

Caution: R7-2560 curing agent may cause skin irritation. In case of eye contact, irrigate with water immediately and seek medical attention. (Standard curing agent is dibutyltin dilaurate.)

Vacuum Deaeration

Remove 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.

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

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. Silicone typically remains flexible at extremely low temperatures and has been known to perform at -50°C (-58°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.

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	Warranty
6 Ounce Kit (176 g)	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.

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