

R-2160

HIGH TEMPERATURE RTV SILICONE ADHESIVE/SEALANT

DESCRIPTION

- Two-part, red, pourable silicone system
- 10:1 Mix Ratio (Part A:B)
- Cures at room temperature or rapidly with heat
- High tear strength and good physical properties

APPLICATION

- As a high temperature adhesive / sealant
- Ideal for use in potting connectors, cable harness breakouts, molded high voltage terminals, seals and gaskets due to its high physical strength
- For applications requiring an operating temperature range of
- -65°C to 315°C (-85°F to 600°F)

PROPERTIES

TYPICAL PROPERTIES

	RESULT		METRIC CONV.		ASTM	NT-TM
	Part A	Part B	Part A	Part B		
Uncured:						
Appearance	Red	Translucent	-	-	D2090	002
Consistency	Pours Easily	Pours Easily	-	-	-	-
Viscosity	250,000 cP	650 cP	250,000 mPas	650 mPas	D1084, D2196	001
Non-Volatile Content	100%		-	-	D792	004
Work Time	50 minutes		-	-	-	008
Cured: 30 minutes @ 150°C (302°F)						
Specific Gravity	1.20		-	-	D792	003
Durometer, Type A	20		-	-	D2240	006
Tensile Strength	750 psi		5.2 Mpa		D412	007
Elongation	625%		-		D412	007
Tear Strength	150 ppi		26.5 kN/m		D624	009



TYPICAL PROPERTIES	RESULT	METRIC CONV.	ASTM	NT-TM
Dielectric Strength	500 volts/mil	19.7 kV/mm	D149	-
Volume Resistivity	1 x 10 ¹⁴	-	D257	040

INSTRUCTIONS FOR USE

Mixing

Mix in a 10:1 ratio Part A to Part B. Take care to minimize air entrapment during mixing.

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 CF1-135 silicone primer is recommended.

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.

Packaging

1 Pint Kit (505 g)
1 Gallon Kit (4.04 kg)
5 Gallon Kit (20.2 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.

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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, 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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