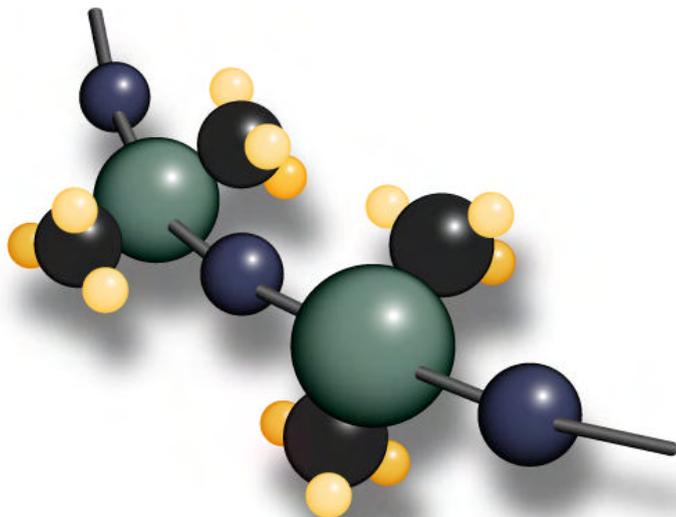


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An ISO 9001 Certified Company

R2-1140

Silicone Adhesive

Product Profile

Description

- One-part, translucent, self-leveling silicone rubber
- Supplied ready to use in Semco® cartridges or five gallon pails for bulk dispensing

Applications

- Bonds aggressively to most surfaces including: glass, ceramics, most metals, natural and synthetic fibers, wood, painted surfaces, many plastics and other silicone rubbers
- For applications requiring a service temperature range of -65 to 240°C (-85 to 465°F)

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Consistency	Self Leveling	-	-	-
Non-Volatile Content	100%	-	D2288	004
Cure Time @ ambient temp. and humidity				
Set Up (Thin Section)	24 min	-	-	-
Full cure	7 days	-	-	075
Tack Free Time				
@ 25°C (77°F) and 50% R.H.	9 minutes	-	C-679-87	005
Cured: 7 days, 50% R.H.)				
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-
Specific Gravity	1.03	-	D792	003
Durometer, Type A	25	-	D2240	006
Tensile Strength	200 psi	1.4 Mpa	D412, D882	007
Elongation	325%	-	D412, D882	007
Lap Shear Strength (primed w/ SP-120)	235 psi	1.6 Mpa	D1002	010
Tear Strength	20 psi	3.5 kN/m	D624	009

Cure Time

Cure time required for R2-1140 depends on humidity and thickness of the material being bonded. Accomplish cure by exposure to atmospheric moisture. Cure may take longer in dry air but will occur at any level above 20% relative humidity. Cure will continue for several days until acetic acid odor has disappeared. Vulcanization and cure are not significantly improved by heating.

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

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

Packaging

- 3 oz Tube (89 mL)
- 6 oz Tube (177 mL)
- 12 oz Tube (355 mL)
- 5 Gallon (18.2 kg)
- Case (24 x 6 oz)
- Case (36 x 8 gm Tube)

Warranty

6 Months

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 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.

Patent Warning

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any United States' or other country's patents covering the product itself, its use in combination with other products or its use in the operation of any process.

Warranty Information

NuSil Technology's warranty period 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 any other expressed or implied warranty, including 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.