

CF15-2186

Fast-Cure, General Purpose Silicone Elastomer

Product Profile

Description

- A two-part, translucent silicone system
- 1:1 Mix Ratio (Part A:B)
- Offers excellent physical and electrical properties in a low viscosity form
- Provided in mix and dispense applicators

Applications

- For applications requiring a very rapid cure and easy application
- Useful for potting, encapsulating and replicating surfaces and devices
- Ideal for providing protection of electronic components and assemblies against shock vibration, moisture, ozone, dust and other contaminants due to its excellent physical, thermal and electrical properties
- Ideal for molding or use in O-rings, potting connectors, cable harness breakouts, molded high voltage terminals, seals and gaskets due to its high physical strength

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Viscosity	75,000 cP	75,000 mPas	D1084, D2196	001
Work Time	1 minute	-	-	008
Cured: 24 hours @ ambient temp. and humidity				
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-
Specific Gravity	1.10	-	D792	003
Durometer, Type A	30	-	D2240	006
Tensile Strength	900 psi	6.2 Mpa	D412, D882	007
Elongation	650 %	-	D412, D882	007
Tear Strength	90 ppi	15.9 kN/m	D624	009
Lap Shear Strength (primed w/ CF1-135)	300 psi	2.1 Mpa	D1002	010
Dielectric Strength	500 volts/mil	19.7 kV/mm	D149	-
Volume Resistivity	1 x 10 ¹⁵	-	D257	040

Instructions for Use

Mixing

Part A and Part B mix in a 1:1 ratio when using the static mix and dispense cartridge. Attach a disposable static mix tip to the cartridge and dispense through the static mix head directly on to the substrate.

Typical Cure Schedule

CF15-2186 typically cures to a tack-free condition within 10 minutes at room temperature and achieves ultimate properties in 24 hours.

Substrate Consideration

Cures in contact with most materials common to electronic assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Units being encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers being used should also be clean and dry. Cure inhibition can usually be prevented by washing all containers with clean solvent or volatilizing the contaminants by heating.

Note: Some bonding applications may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Packaging

- 50 ml SxS Kit
- 2 Pint Kit (910 g)
- 200 ml SxS Kit
- 400 ml SxS Kit
- 2 Gallon Kit (7.28 g)
- 10 Gallon Kit (36.4 g)

Warranty

6 Months

Warnings About Product Safety

NuSil Technology believes the information and the 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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Specifications

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