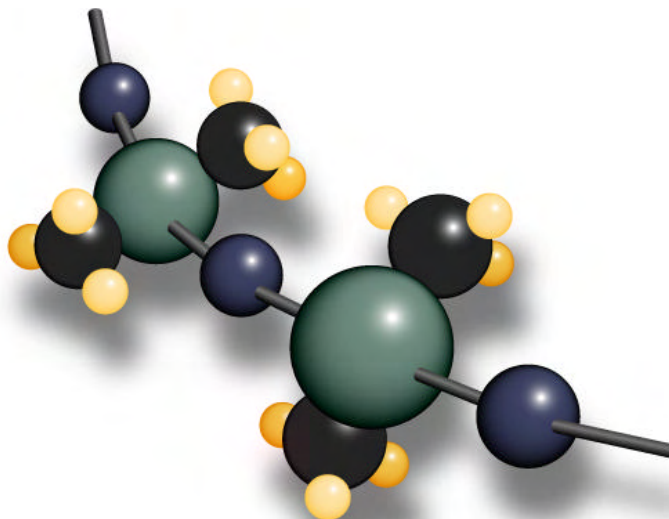


Polymer Systems Technology Limited

UK & Ireland Distributor



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MED1-4213, MED2-4213 & MED3-4213

Fast-Cure Silicone Adhesives

Product Profile

Description

- Two-part, translucent, thixotropic, high tear strength silicone systems
- MED1-4213 and MED3-4213 cure at room temperature and all three cure rapidly with the application of heat in an oven, or by a heat gun or lamp
- Many bonding applications do not require the use of a silicone primer for suitable adhesion
- Do not require atmospheric moisture to cure
- No curing byproducts such as acetic acid or methyl alcohol
- Consistency allows products to be supplied in easy-to-use, airless side-by-side kits that eliminate mixing and deairing difficulties
- MED1-4213 has a work time of ~15 minutes, MED2-4213 has a minimum work time of 15 hours, and MED3-4213 has a minimum work time of 60 minutes
- MED1-4213 & MED3-4213 cure in less than 24 hours at room temperature

Applications

- As adhesives for bonding and sealing silicones to each other and other substrates such as metals and plastics
- For rapid production or prototyping due to a rapid cure

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Viscosity, Part A	80,000 cP	80,000 mPas	D1084, D2196	001
Work Time, MED1-4213	15 minutes	-	-	008
Work Time, MED2-4213	15 hours minimum	-	-	008
Work Time, MED3-4213	60 minutes minimum	-	-	008
Cured: 24 hours @ 25°C (MED1-4213 & MED3-4213)				
Cured: 15 minutes @ 150°C (MED2-4213)				
Specific Gravity	1.12	-	D792	003
Durometer, Type A, MED1-4213, MED3-4213	20	-	D2240	006
Durometer, Type A, MED2-4213	15	-	D2240	006
Tensile Strength	1,000 psi	6.9 Mpa	D412	007
Elongation	800%	-	D412	007
Tear Strength	130	23.0 kN/m	D624	009

Instructions For Use

Mixing

MED1-4213, MED2-4213, & MED3-4213 mix at a 1:1 mix ratio when extracted from their side-by-side kits through a static mix and dispense cartridge. Attach the disposable static mix tip to the cartridge and extrude the product directly onto the substrate.

Note: NuSil Technology recommends discarding the first few grams of extruded material.

Packaging

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

Warranty

12 Months

MED1-4213, MED2-4213, & MED3-4213 can also be purchased in standard two-part kits. When using standard kits, take care to minimize air entrapped while mixing. Place the mixed product in a vacuum chamber to remove entrapped air and subsequently reduce bubble formation during curing.

Substrate Consideration

MED1-4213, MED2-4213, & MED3-4213 cure in contact with most materials common to biomedical assemblies. Exceptions include: sulfur cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Clean units being encapsulated or potted to ensure they are free of surface contaminants. Also clean and dry containers and dispensers being used with MED1-4213, MED2-4213, & MED3-4213. Prevent cure inhibition by washing all containers with clean solvent or volatilizing the contaminants by heating.

Adjustable Cure Schedule

Products cure at a wide range of cure times and temperatures to accommodate different production needs. Contact NuSil Technology for details.

FDA Master Access File

A Master Access File for MED1-4213 and MED2-4213 has been filed with the U.S. Food and Drug Administration (FDA). A Master Access File for MED3-4213 will be filed. Customers interested in authorization to reference the Master Access File must contact NuSil Technology.

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.

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 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 12 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

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