

**Novagard® 500 Series 500-607
Potting and Encapsulant
Specification Data**



DESCRIPTION

Novagard 500 Series 500-607 is a low viscosity two-component silicone that, when mixed, cures to a moderately flexible elastomer. This material is ideally suited for application as a general potting compound in power supplies, connectors, and junction boxes.

FEATURES

- Low shrinkage
- No exotherm during cure
- Low viscosity
- Adhesion to plastics and metals
- No solvents
- No post cure required
- No cure inhibition

INSTRUCTIONS

This material is shipped in separate containers that are labeled Part A and Part B. While the material may be mixed by hand, it is more appropriate to use automated, meter-mixing equipment. The compound is designed with a 1:1 volume:volume mix ratio. Automated mixing equipment eliminates the need for a deaeration cycle. If mixing by hand, weigh 50 parts of Part A into an appropriately sized mixing vessel; add 50 parts of Part B and mix thoroughly.

STORAGE

Novagard 500 Series 500-607 may be stored in the original unopened containers at, or below, 80°F (25°C) for up to 6 months.

AVAILABILITY

Novagard 500 Series 500-607 is available in 1 quart, 1 gallon, 5 gallon, straight-sided pails, or 55 gallon drums.

PRECAUTIONS

Not recommended for surfaces that are to be painted.

GENERAL PROPERTIES

BEFORE CURE

Physical Property	Test Method	Typical Value
Appearance	After mixing	Clear
Mix Ratio	Base:Cure (by volume)	1:1
Specific Gravity	25°C Part A	0.95 – 1.05
	Part B	0.95 – 1.05
Viscosity (cPs)	Part A	100 - 200
	Part B	1,500 – 2,500
Mixed Viscosity at 5 minutes (cPs)	Mixed, 25°C	500 – 700
Mixed Viscosity at 90 minutes (cPs)	Mixed, 25°C	750 – 1,000
Gel Time (hours)	Mixed, 25°C	5-6

AFTER CURE (7 Days @ 25°C/50% RH)*

Physical Property	Test Method	Typical Value
Shore A	ASTM D2240	13-18
Tear Resistance (pli)	ASTM D624	1.5 – 2.5
Coefficient of Linear Thermal Expansion	ASTM E831	6.67 x 10 ⁻⁴ /°C
Max Operating Temperature	ASTM D412	130°C, 300 hrs @200°C

* The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the characteristics of the aforementioned product, however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.