

**Novagard® 500 Series 500-100**  
**Non-Corrosive**  
**Specification Data**



**DESCRIPTION**

Novagard 500 Series 500-100 is a single-component, neutral-cure, silicone sealant and/or adhesive that provides fast tack-free time, fire resistance, and cures with no corrosive by-products.

**FEATURES & BENEFITS**

- *Wide range of compatibility*
- *Single component*
- *Primerless adhesion:*  
*aluminum, polycarbonate,*  
*glass, steel, Tedlar®*
- *Non-sag rheology*
- *Excellent dielectric properties*
- *Room temperature curing*
- *Solvent-free formulations*
- *No corrosive by-products*
- *UL rated (pending)*

**APPLICATIONS**

Novagard 500 Series 500-100 is ideally suited for any application that requires long-term bonding and sealing, superior environmental resistance, and protection against both thermal and mechanical shock. Designed primarily for engineering applications in a wide variety of industries, Novagard 500 Series 500-100 is also an excellent frame and junction box sealant in photovoltaic module construction.

**INSTALLATION**

As with all single component materials, work life and cure times of 500 Series 500-100 is dependent upon environmental conditions such as temperature, humidity, and application thickness. Adhesion should be checked on small samples prior to full scale production.

**STORAGE**

Novagard 500 Series 500-100 may be stored in the original unopened containers at, or below, 70°F for up to twelve (12) months.

**PRECAUTIONS**

Consult and obey all applicable local, state, and federal regulations for disposal of solvent and silicone waste. For additional information consult product SDS.

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides. Not recommended for surfaces that are to be painted.

**PRODUCT SPECIFICATIONS**

Physical Property	Test Method	Performance Range
Appearance		White Paste
Extrusion Rate	1/8" orifice; 90 psi	40 gm/minute
Skin Over Time	1/8" @ 50% RH & 77°F	5-15 minutes
Through Cure	1/8" @ 50% RH & 77°F	72 hours maximum

**TYPICAL PROPERTIES\***

Physical Property	Test Method	Typical Value
Specific Gravity		1.2-1.3
Tensile Strength	ASTM D412	150 - 200 psi
Elongation	ASTM D412	400 – 450%
Tear Resistance	ASTM D624	30 – 35 pli
Shore Hardness	ASTM D2240	25 ± 5
Adhesion Glass Aluminum Polycarbonate	ASTM D910	12 – 15 pli 12 – 15 pli 12 – 15 pli
Flammability Class	UL94	HB (Pending)

\*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 typical 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.