

NOVAGARD

Solutions™

Engineered Products... Innovative Thinking



SPECIALTY SEALANTS

Novagard® Flowable Sealants - 200 Series

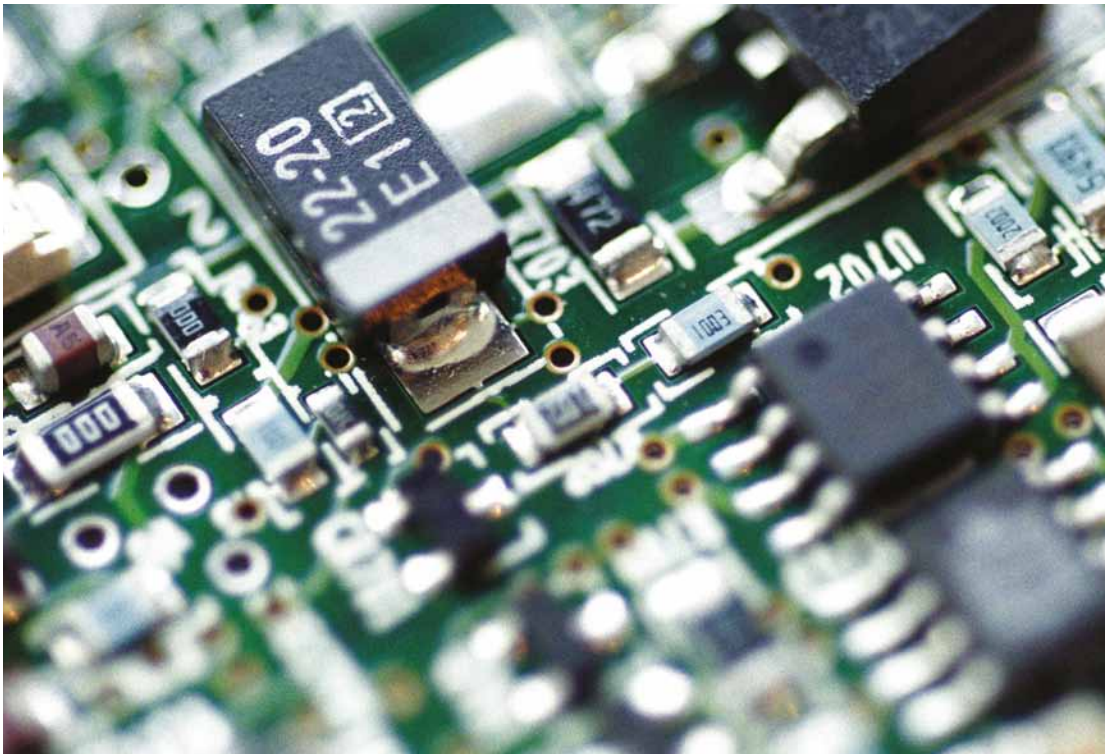
Description: Ideal for general industrial sealing and bonding applications requiring a flowable product, but retains enough thixotropy to prevent leakage during the cure cycle. Standard products offer a wide range of viscosities from 500 cps to 120,000 cps.

Special Characteristics: Self-leveling, flowable neutral cure sealant

Applications:

- Thin Section Potting
- Insulating Electrical Terminals
- Horizontal Seam Sealing
- Protective Conformal Coatings
- Filling Small Voids

Colors: 200-107 White | 200-257 Translucent | 200-250 Translucent | 200-260 Clear | 200-102 Black



Novagard® Neutral Cure Paste Adhesives and Sealants - 400 Series

Description: These are single component oxime silicone sealants and/or adhesives. They are non-flowable paste products offering an excellent balance between rate of cure, adhesion and physical property.

Special Characteristics: RTV paste; excellent adhesion and sealing properties; low odor

Applications:

- Substitute for Mechanical Fasteners
- Waterproofing Electrical Components
- Formed-in-place Gaskets
- Sealing Coaxial Connectors
- Sealing Refrigerator & Freezer Liners
- Protecting Instrumental Assemblies
- Adhering Plastic Moldings

Adheres to: Dissimilar Substrates, Ceramic, Metal, Rubber, Glass & Most Plastics

Colors: 200-107 White | 200-257 Translucent | 200-250 Translucent | 200-260 Clear | 200-102 Black

Novagard® Fast Cure Sealants - 400 Series

Description: Novagard fast cure sealants are single-component silicone sealants and/or adhesives. These are non-flowable, paste products that provide fast tack free times and high green strength. These fast cure products out perform slower materials in multi-step assembly applications. The fast tack and easily strength combine to hold the assemble together as the unit moves from station to station.

Special Characteristics: Fast track free times (4-7 minute skin over times) and tensile strengths (150-200 psi after fully cured), low odor formulation

Applications:

- Component Assembly
- Component Staking
- Formed-in-place Gaskets

Colors: 400-195 Translucent | 400-202 Black

Novagard® Low Adhesion Sealants - 400 Series

Description: Novagard low adhesion sealants are single-component, non-flowable RTV silicones that cure to a solid rubber like normal silicone RTV except with low adhesion. Ideal for creating fomed-in-place gaskets where re-entry or post-production disassembly is necessary.

Special Characteristics: Easy to remove sealant

Applications:

- Removable Seals
- Temporary Seals

Colors: 400-900 White | 400-950 Translucent

Novagard® High Strength Sealants - 400 Series

Description: These products offer excellent adhesion to numerous substrates including plastic and metals. They also offer outstanding resistance to gasoline, brake fluid, antifreeze and most wheel cleaners.

Special Characteristics: High tensile strength (300-400 psi), elongation (300-400%), adhesion (>45pl) and chemical resistance. 400-155 translucent offers 200-250 psi tensile strength.

Applications:

- High Strength Bonding
- Deep Section Cure Applications

Colors: 400-110 Black | 400-118 Gray | 500-155 Translucent

Novagard® Modified Alkoxy Sealants/Adhesives - 500 Series

Description: Novagard alkoxy silicones are non-corrosive, single-component pastes. These products are non-corrosive when tested in accordance with Mil Spec A-46146B. Ideal for application that required quick cures and early green strength development on electronic modules, circuit boards and other sensitive components.

Special Characteristics: Passes Mil SPec A-46146B testing, non-corrosive, fast cure, excellent handling and smooth flow, superior adhesion to many common substrates, no mixing.

Applications:

- Electronic Components
- Lens Bonding
- Circuit Boards
- Sealing Wires
- Other Sensitive Components

Colors: 500-100 White | 500-150 Translucent | 500-102 Black

Novagard® Two Component - 600 Series

Description: Premium-grade, two-component, addition cure silicones that when mixed, cure to flexible elastomers. These materials are ideally suited for application as general potting compounds in power supplies, connectors, industrial controls, and junction boxes.

Special Characteristics: Wide range of compatibility, low shrinkage, no exotherm during cure, excellent dielectric properties, no solvents or cure byproducts, no post cure required.

Applications:

- Potting
- Sensors
- Amplifiers
- Power Supplies
- Industrial Controls
- Relays
- Connectors
- Transformers
- High Voltage Resistor Packs

Products: 600-200 Re-enterable gel | 600-280 High Strength Clear | 600-310 Thermally Conductive Grey | 600-410 General Purpose Black

Novagard® UV Curable Sealants - 800 Series

Description: The Novagard UV/Dual cure sealants are available in flowable, paste and gels. These products will cure within three seconds when exposed to a UV light source. They are ideal for increasing through-put and eliminating the need to rack parts. Our paste products can be foamed up to 1/4” thick to reduce material cost.

Special Characteristics: Production line speed cure rate (~3 seconds), depth of cure up to 5/8” depending on product. Requires minimal UV energy source. *Approved under UL746E for indoor and outdoor usage on printed circuit boards as conformal coating.

Applications:

- Formed-in-place Gaskets
- Electronics
- Board Coatings
- Silicone Rubber Bonding
- Potting Applications
- Glass Bonding

Novagard® UV/Dual Cure Sealants - 800 Series Typical Properties

UV Product Type	Product Number	Appearance, Clarity and Color	Cure Type	Depth of Cure (1 Second @ 650 mW/cm ²)	Viscosity (cps), Brookfield, 25°C	Tensile Strength	Elongation at Break (%)	Shore A Hardness	Temperature Range
Flowable	800-250	Clear	Ultraviolet, moisture, neutral	>5/8" (16 mm)	800 cps	20 psi	25%	15	-65°F to 350°F
	800-630	Translucent	Ultraviolet, moisture, neutral	3/16" (5 mm)	10,000	100 psi	100%	25	-65°F to 350°F
Paste	800-305	Translucent	Ultraviolet, moisture, neutral	3/16" (5 mm)	Paste	170 psi	500%	30	-65°F to 350°F
	800-401	Hazy	Ultraviolet	3/16" (5 mm)	Soft Paste	450 psi	1400%	35	-65°F to 350°F

UV Product Type	Product Number	Appearance, Clarity and Color	Cure Type	Depth of Cure (1 Second @ 650 mW/cm ²)	Viscosity (cps), Brookfield, 25°C	Penetration (Shore 00)	Specific Gravity	Dielectric Strength (volts/mil kV/mm)		Dielectric Constant at 100 Hz / 100 kHz	Volume Resistivity, ohm-cm	Dissipation Factor at 100 Hz / 100 kHz
Gels	800-610	Clear	UV Only	1/4" (6 mm)	<500 cps	80	0.98	500	20	3.30 / 3.20	5.41 x 10 ¹⁴	0.0039 / 0.0024
	800-620	Clear	UV Only	1/4" (6 mm)	1500 cps	60	0.98	480	19	3.37 / 3.34	4.66 x 10 ¹⁴	0.0036 / 0.0029

Novagard® Flowable & Paste Sealants Dielectric Typical Properties

	Dielectric Strength (v/mil)	Dielectric Constant 100 Hz / 100 KHz	Volume Resistivity (ohm-cm)	Dissipation Factor 100 Hz / 100 KHz
Flowables	350	3.34 / 3.32	2.25 x 10 ¹⁴	0.0024 / 0.0025
Pastes	400	3.43 / 3.41	4.77 x 10 ¹⁴	0.0022 / 0.0022

The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. The information provided in the above tables is not intended for use in preparing specifications. Please contact Novagard Solutions for additional information.



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