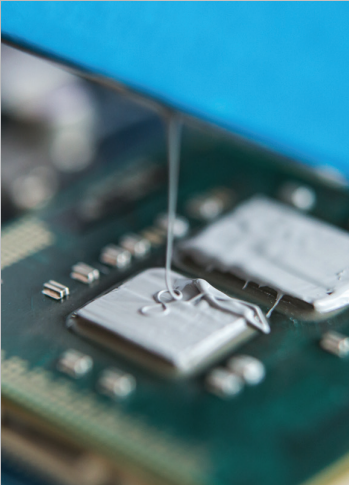


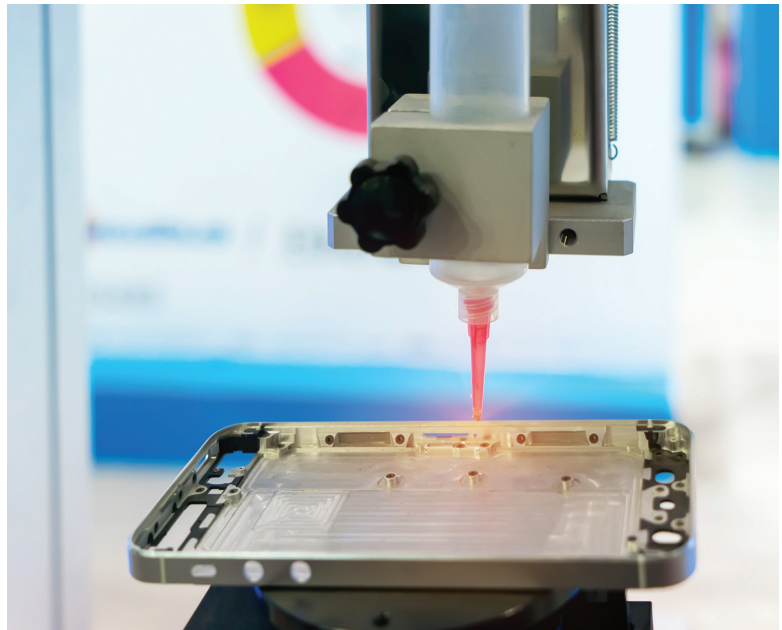
NOVAGARD

600 Series 2-Part Silicone Sealants

The Novagard 600 Series Silicone Sealants are two-component, addition-cure silicones that when mixed, cure to flexible elastomers. The Novagard 600 series is noted for exceptionally fast cure times, convenient mix ratios, solvent-free formulations, non-corrosive by-products, and excellent dielectric properties. Whether above or below ground, 600 Series silicones from Novagard are optimized for junction box enclosures, cable splice kits, electrical insulation, and a large number of potting and encapsulation applications.



- Exceptionally fast cure
- Convenient mix ratio
- Controlled rheology
- Solvent-free formulations
- No corrosive by-products
- Variable hardness
- Low shrinkage
- No exotherm during cure
- Excellent dielectric properties



Applications

- Potting and Encapsulating
- Power Supplies
- Connectors
- Sensors
- Industrial Controls
- Transformers
- Amplifiers
- Relays
- High Voltage Resistor Packs
- Junction Box Enclosures
- Cable Splice Kits
- Electrical Insulation
- Converters/Inverters
- Vibration Damping

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Disposal

Consult and obey all applicable local, state, and federal regulations. For additional information, consult product Safety Data Sheet.

Precautions

Certain materials, chemicals, curing agents, and plasticizers may inhibit the cure. The most notable are organotin catalysts, amino compounds, polysulfide, and other sulfur-containing materials. 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.

Do not estimate weights and measures. The product is mix ratio sensitive and requires accurate metering (1 part A : 1 part B v/v).

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.

For Professional Use

Properties	600-160	600-170	600-180	600-200	600-205
Before Cure					
Description	Potting and Encapsulant	Potting and Encapsulant	Silicone Elastomer	Silicone Gel	Silicone Gel
Appearance (After Mixing)	Gray	Black	Clear	Clear	Clear
Mix Ratio Base: Cure (By Volume)	1:1	1:1	1:1	1:1	1:1
Specific Gravity (Mixed, 25°C) Part A Part B	1.55 - 1.70 1.55 - 1.70	1.35 - 1.45 1.35 - 1.45	0.95 - 1.10 0.95 - 1.10	0.95 - 1.05 0.95 - 1.05	0.95 - 1.05
Viscosity (Mixed, 25°C) Part A Part B	25,000 - 30,000 cPs 10,000 - 14,000 cPs	6,000 - 8,500 cPs 18,000 - 22,000 cPs	15,000 - 20,000 cPs 2,500 - 3,500 cPs	2,000 - 4,000 cPs 2,000 - 4,000 cPs	3,000 - 5,000 cPs 3,000 - 5,000 cPs
Penetrometer	n/a	n/a	n/a	4.0 - 4.3 mm	4.0 - 5.0 mm
Working Time (Mixed, 25°C)	<15 minutes	<15 minutes	<20 minutes	<15 minutes	3 - 5 minutes
Cure Time	2 - 3 hours	2 - 3 hours	15 - 30 minutes	2 - 3 hours	
After Cure (7 Days @ 25°C/50% RH)					
Service Temperature	-40°C to 205°C (-40°F to 400°F)	-40°C to 205°C (-40°F to 400°F)	-40°C to 205°C (-40°F to 400°F)	-40°C to 205°C (-40°F to 400°F)	-40°C to 205°C (-40°F to 400°F)
Tensile Strength (ASTM D412)	600 - 800 psi	400 - 700 psi	850 - 1,150 psi		
Elongation (ASTM D412)	100 - 150%	100 - 300%	240 - 400%		
Shore A (ASTM D2240)	60 - 70	45 - 65	35 - 45		
Tear Resistance (ASTM D624)	15 - 25 pli	15 - 25 pli	20 pli		
Flammability Class (UL 94)		V0 (Pending)			
Volume Resistivity (ASTM D257)	16.7 x 10 ¹⁴ Ω · cm	8.45 x 10 ¹³ Ω · cm	9.47 x 10 ¹⁴ Ω · cm		
Dissipation Factor [100 Hz/100 kHz] (ASTM D150)	0.0034/ 0.0028	0.0020/ 0.0017	0.0025/ 0.0022		
Dielectric Constant [100 Hz/100 kHz] (ASTM D150)	3.39/3.40	3.69/3.71	3.39/3.41		
Dielectric Strength [10 mil gap] (ASTM D149)	400 v/mil	470 v/mil	534 v/mil		
Adhesion (ASTM D903, 7 days @ 50% RH & 75°F) Glass PVC Wood					
UL Rating	UL 94 V0 Pending	UL 94 V0 Pending	UL 94 V0 Pending		



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ISO 9001:2015 QMS (with Design) | IATF 16949:2016 QMS (with Design)
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