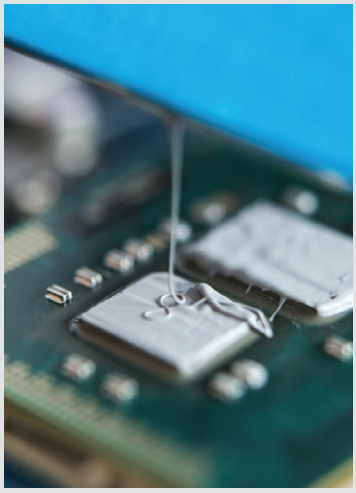
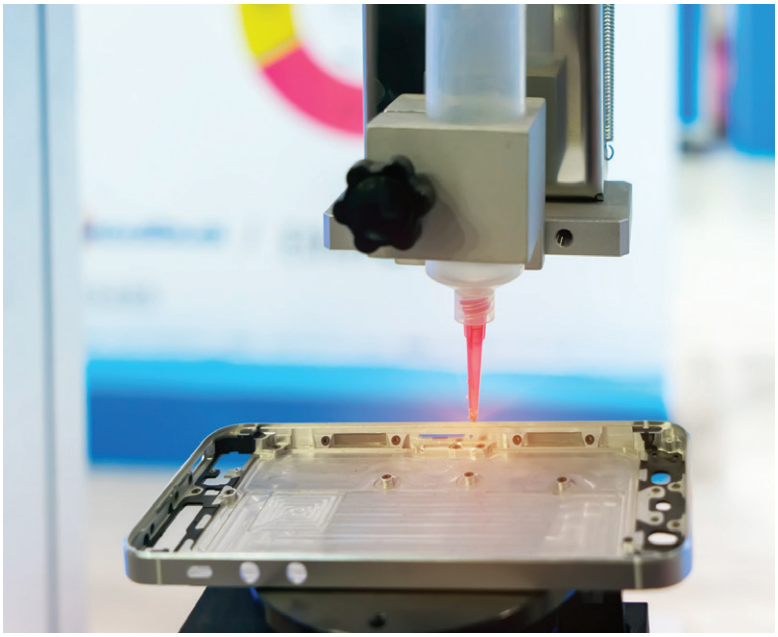
NOVAGARD

# 600 Series Addition Cure Silicone Sealants

The Novagard 600 Series Silicone Sealants are addition-cure silicones that 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.



- Electronics grade / non-corrosive
- 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

**Made in the USA. For Professional Use.**

### 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 organo-tin 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. Two part silicones are mix ratio sensitive and require 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

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# 600 Series Addition Cure Silicone Sealants

| 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 A:B (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 | | |
| 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 | | |
| UL Rating | UL 94 V-0 Pending | UL 94 V-0 Pending | UL 94 V-0 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.

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