



**SILICONE SEALANTS FOR
WINDOW AND DOOR
MANUFACTURING**

WINDOW & DOOR SEALANTS

Novagard Solutions is a leading manufacturer of a complete line of sealants that meet the needs of window and door manufacturers. Novagard Solutions' NOVAFLEX products are ideally suited for all manufacturing setups from completely automated to hand glazed units. We provide multiple products for the fenestration industry - our Novaflex Multi-Purpose Sealant, Novaflex SB Bedding Compound, Novaflex 400 Series Impact Resistant Sealants, and Novaflex Advanced Polymer Paintable Sealant.

Novaflex Multi-Purpose Adhesive Sealant is a single component VOC compliant oxime-cure silicone sealant. It will develop primer-less adhesion to most common building materials and substrates. It is a versatile compound used frequently in glazing, structural back-bedding, heel, cap, toe bead, mullion joinery, PVC sash lineal reinforcement, bay/bow fabrication, secondary seal for dry-glazed sash, mitre and seam sealing.

Benefits & Advantages

- Single-component oxime-cure silicone sealant
- Durable, flexible seal
- Excellent UV resistance
- AAMA verified
- 18 month shelf life from date of manufacture
- Available in 50 standard colors and 32 Kynar paint colors
- Available in 10.3 oz cartridges, 20 oz sausages, 5 gallon bucket, and 55 gallon drum



Novaflex SB Bedding Compound is a patented material developed to compliment any type of glazing rabbet profile design. The Novaflex SB Bedding silicone combines oxime-cure silicone technology with consistently sized spacer-beads to provide a “liquid shim”. The bead assures controlled compound thickness between the glass and sash. This will maximize sash performance while minimizing sealant consumption.

Benefits & Advantages

- Single-component oxime-cure silicone sealant
- Durable, flexible seal
- 18 month shelf life from date of manufacture
- Available bead sizes - 0.030”, 0.040” and 0.050”
- Available in 10.3 oz cartridges, 5 gallon bucket, and 55 gallon drum
- Minimizes/eliminates the cleanup requirements associated with other bedding technologies
- 2 standard colors (gray and translucent) along with clear fast tack and custom color matches available

IMPACT RESISTANT SEALANTS

Novaflex Impact Resistant Sealants are non-corrosive, single-component silicone sealants that will cure upon exposure to atmospheric moisture. These impact resistant sealants can be utilized in window fenestration needing to pass Miami-Dade County Code and other regional and state coastal requirements.

Benefits & Advantages

- Single-component oxime-cure silicone sealant
- Provides ultimate tensile strength: ~370 PSI
- Cures to a tough durable elastomeric rubber
- Non-corrosive products
- Available in Gray, Black and White
- Available is 10.3 oz cartridges, 5 gallon bucket, and 55 gallon drum



ADVANCED POLYMER PAINTABLE SEALANT

Novaflex Advanced Polymer Paintable Sealant is a high performance interior and exterior joint sealant that can be used in both moving and non-moving joint applications. It provides a long lasting weather tight seal to a variety of building substrates. This modified silicone has all of the silicone features in a paintable and stainable product.

Benefits & Advantages

- Single-component sealant
- No shrinking or cracking
- VOC compliant
- AAMA verified
- 12 month shelf life from date of manufacture
- Paintable
- Can be top coated in 24 hours
- Available in 7 window/door colors
- Available is 10.3 oz cartridges, 5 gallon bucket, and 55 gallon drum



* For more information on these products, please visit our website at www.novagard.com *

Novaflex Multi-Purpose Adhesive Sealant			
Physical Property	Test Method	Type I	Type II
Specific Gravity		1.00-1.05	1.15-1.25
Tensile Strength	ASTM D412	140-200 psi	170-220 psi
Elongation	ASTM D412	500-650%	800-1000%
Tear Resistance	ASTM D624	30-35 pli	
Shore Hardness	ASTM D2240	20 +/- 5	25 +/- 5
Service Temperature		-40 C to 205 C (-40 F to 400 F)	
Joint Sealant Designation	ASTM C920	Type S, Grade NS, Class 25, Use NT, M, G, A, O	
Viscosity	Brookfield #7 @10rpm	3500-7000 poises	4500-8000 poises
Extrusion Rate	1.8" orifice @ 50 psi	30 - 80 gm/min	
Skin Over Time	3/8" @ 50% RH & 77 F	5-10 minutes	
Through Cure	3/8" @ 50% RH & 77 F	24 hours	

Novaflex SB Series Sealant			
Physical Property	Test Method	Type I	Type II
Specific Gravity		1.00 - 1.05	
Tensile Strength	ASTM D412	150 - 200 psi	
Elongation	ASTM D412	550-650%	
Tear Resistance	ASTM D624	30-35 pli	
Shore Hardness	ASTM D2240	25 +/- 5	
Adhesion Glass Aluminum Wood	ASTM D903	12-15 pli 10-14 pli 12-15 pli	
Viscosity	Brookfield #7 @10rpm	3500-7000 poises	4500-8000 poises
Extrusion Rate	1.8" orifice @ 50 psi	30 - 80 gm/min	
Skin Over Time	3/8" @ 50% RH & 77 F	5-10 minutes	
Through Cure	3/8" @ 50% RH & 77 F	24 hours	

Novaflex Impact Resistant Sealants (400 Series)		
Physical Property	Test Method	Typical Value
Specific Gravity		1.00 - 1.05
Tensile Strength	ASTM D412	300-400 psi
Elongation	ASTM D412	300-400 %
Shore Hardness	ASTM D2240	20 minimum
Adhesion Glass PVC Wood	ASTM D903	20 pli minimum 20 pli minimum 20 pli minimum
Extrusion Rate	1.8" orifice @ 50 psi	40 gm/min
Skin Over Time	3/8" @ 50% RH & 77 F	5-15 minutes
Through Cure	3/8" @ 50% RH & 77 F	24 hours

Novaflex Advanced Polymer Paintable Sealant		
Physical Property	Test Method	Typical Value
Specific Gravity		1.60
Viscosity	Brookfield RVF, 4rpm	1,000,000 cps
Tack free time	ASTM C679	45 minutes
Service temperature		-40 F to 200 F
Slump (sag)	ASTM C697	0 slump