NovaFlex® Pro Adhesive Sealant
Specification Data

NOVAGARD

DESCRIPTION
NovaFlex Pro Adhesive Sealant is a non-corrosive, single-component, neutral cure silicone sealant and/or adhesive.

APPLICATIONS
This product is a general-purpose compound, which is used most frequently within the window and door manufacturing industry as glazing or structural back-bedding, and a seam sealant or joint filler in metal roof systems. NovaFlex Pro Adhesive Sealant is a single-component, high-solid, low-odor material, which cures to a medium modulus, flexible, durable rubber-like solid. NovaFlex Pro Adhesive Sealant will develop primerless adhesion to most common construction substrates and is compatible with most materials.

STANDARDS
Meets or exceeds the performance of characteristics of ASTM C-920, TT-S-001543A, and TT-S-230C. AAMA 803.3 (I), 805.2 C, 808.3.

VOC CONTENT
NovaFlex Pro Adhesive Sealant (Type I, Unfilled) has typical VOC Content of 32 g/l (3.16%). NovaFlex Pro Sealant (Type II, Filled) has typical VOC Content of 27g/l (2.24%). 50-state VOC Compliant (<4%).

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

AVAILABILITY
NovaFlex Pro Adhesive Sealant is available in 10 ounce cartridges and 20 ounce sausage packs.

STORAGE
NovaFlex Pro Adhesive Sealant has a shelf life of twenty four (24) months for cartridges and eighteen (18) months for sausages from the date of manufacture when stored in the original, unopened container at, or below, 75ºF (24ºC).

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

LIMITATIONS
Not recommended for surfaces that are to be painted. Not recommended for joints continuously submerged under water. Do not install if surface temperature is below 0°F or exceeds 120°F.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range Type I – Class 35	Performance Range Type II – Class 50
Appearance	Visual	Paste (Translucent & Metallics)	Paste (All Colors)
Viscosity	Brookfield #7 @ 10 rpm	3,500 – 7,000 poises	4,500 – 8,000 poises
Extrusion Rate	1/8" Orifice @ 50 psi	30 – 80 grams/minute	30 – 80 grams/minute
Skin Over Time	3/8" @ 50% RH & 77°F	5 - 15 minutes	5 – 15 minutes
Shelf Life		24 months (cartridges) 18 months (sausages)	24 months (cartridges) 18 months (sausages)

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value Type I – Class 35	Typical Value Type II – Class 50
Specific Gravity		1.03	1.20 – 1.25
Tensile Strength	ASTM D412	150 psi	200 psi
Elongation	ASTM D412	575%	730%
Tear Resistance	ASTM D624	33 pli	33 pli
Shore Hardness	ASTM D2240	15	25
Tack Free Time	ASTM C679 @ 50% RH & 77°F	15 minutes	20 minutes
Through Cure	3/8" @ 50% RH & 77°F	48 hours (14 days for OEM window applications)	48 hours (14 days for OEM window applications)
Service Temperature		-40°F to 400°F (-40°C to 204°C)	-40°F to 400°F (-40°C to 204C)
Application Temperature		-20°F to 160°F (-29°C to 71°C)	-20°F to 160°F (-29°C to 71°C)
Joint Movement	ASTM C719	+/- 35	+/- 50
Joint Sealant Designation	ASTM C920	Type S Grade NS Class 35 Use NT, M, G, A, O	Type S Grade NS Class 50 Use NT, M, G, A, O
Adhesion Glass Aluminum Vinyl	ASTM D794	 13 pli 12 pli 13 pli	 24 pli 24 pli 25 pli

*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.

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