

NovaBond® Pro Premium Hybrid Sealant

Specification Data



DESCRIPTION

NovaBond Pro Premium Hybrid Sealant is a non-corrosive, single-component, MS polymer hybrid sealant that can also be used as an adhesive. NovaBond Pro presents an excellent balance between the rate of cure, adhesion, and physical properties. All-weather formula is UV resistant and can be applied from -10°F to 122°F. Material can be applied to wet surfaces and is rain-ready and paintable 30-minutes after application. NovaBond Pro is engineered to be permanently flexible and will not shrink or crack.

APPLICATIONS

NovaBond Pro Premium Hybrid Sealant functions as a hybrid adhesive sealant that develops bond to most substrates without the use of a primer. This ready-to-use single-component compound is typically used as an adhesive to bond dissimilar materials, as a sealant for creating formed-in-place gaskets, or for a multitude of other applications. Adheres to: glass, aluminum, wood, PVC, PVDF (Kynar®), concrete, brick, stone, fiber cement, and most common construction materials.

STANDARDS

Meets or exceeds the performance of characteristics of ASTM C-920, Type S, Grade NS, Class 35, use NT, M, G, A, and O. AAMA 802.3 (Type II), 803.3 (Type I), 805.2 Group C, 808.3 (Type I).

VOC CONTENT

NovaBond Pro Premium Hybrid Sealant (has typical VOC Content of 21.75g/l (1.50%). 50 state VOC Compliant (<4%).

INSTALLATION

As with all single-component materials, the work life and cure time of NovaBond Pro Premium Hybrid Sealant are dependent upon environmental conditions such as temperature, humidity, and application thickness. Adhesion should be checked on small samples before full-scale production.

NovaBond Pro has been evaluated for compatibility with major paint chemistries, however, it is the responsibility of the end user to evaluate paint compatibility on small samples before full-scale production. If unsure, we advise getting a recommendation from your paint vendor on the paint's compatibility with various hybrid sealants.

Like all hybrid sealants, NovaBond Pro contains organic polymers that may age and color shift over time. For best longevity and performance, we recommend that NovaBond Pro be painted within 90 days of application.

AVAILABILITY

NovaBond Pro Premium Hybrid Sealant is available in 10-ounce cartridges, 20 oz. sausage packs, and 55-gallon drums.

STORAGE

NovaBond Pro Premium Hybrid Sealant has a shelf life of twenty four (24) months from the date of manufacture, as indicated by the lot number when stored in the original, unopened container at 40°F to 75°F (4.44°C to 24°C). Freeze-thaw stable.

PRECAUTIONS

Consult and obey all applicable local, state, and federal regulations. For additional information consult product S.D.S. Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides.

LIMITATIONS

Not recommended for: Joints continuously submerged under water, structural glazing applications, or where abrasion and physical abuse are encountered. Do not install if surface temperature is below -10°F or exceeds 122°F.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Paste (Various Colors)
Viscosity	Brookfield HB #7 @ 10 rpm	200,000 – 700,000 cps
Extrusion Rate	1/8" Orifice @ 50 psi	≥ 50 grams/minute
Skin Over Time	3/8" @ 50% RH & 77°F	10 – 45 minutes
Shelf Life		24 months

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.40 – 1.50
Tensile Strength (psi)	ASTM D412	200 – 325
Elongation (%)	ASTM D412	250 - 475
Hardness (Shore A)	ASTM D 2240	45 -55
Through Cure	3/8" @ 50% RH & 77°F	7 days
Service Temperature		-40°F to 176°F (-40°C to 80°C)
Application Temperature		-10°F to 122°F (-23°C to 50°C)
Adhesion (pli)	ASTM C 794	Glass >15
Aluminum		>20
Wood		>15
PVC		>15
PVDF		>25
Concrete		>15
Joint Movement	ASTM C 719	± 35
UV Exposure	ASTM G154 (2000 hours UV-A)	Pass

*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 the 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. It is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.