

NovaBarrier AWB1000 Air & Water Barrier Technical Data Sheet



DESCRIPTION

NovaBarrier™ AWB1000 Air & Water Barrier is a single-component hybrid designed for use as a liquid applied air barrier. It cures in wet weather conditions and creates a seamless, flexible membrane that blocks unwanted air and water infiltration through the building envelope yet remains breathable to allow interior substrates to dry if wet or damp. Free of solvents and isocyanates, it adheres to most common building substrates without the need for priming, including damp surfaces.

FEATURES AND BENEFITS

- Can be applied to damp substrates
- Immediately waterproof
- Self seals around fastener penetrations
- Sprayable and rollable
- Vapor permeable (20.5 perms at 20 mils)
- Primerless adhesion to most transition materials
- Excellent UV and weather resistance
- Solvent-free, isocyanate-free formulation - VOC Compliant
- Seamless elastomeric membrane
- Paintable
- Compatible with most sealants, waterproofing, or air barrier components
- Suitable for 12 months of UV exposure

APPLICATIONS

- Liquid-applied air/water barrier for commercial and residential envelopes
- Can also be used as a rollable liquid applied flashing
- Suitable for sheathing, CMU, concrete, and rough openings
- Works behind metal panels, masonry, MCM, and rainscreens

PREPARATION

Surfaces must be clean, structurally sound, and free of debris. Damp surfaces are acceptable provided no standing water is present. Substrate compatibility testing is recommended before proceeding with full installation.

APPLICATION INSTRUCTIONS

May be applied using a standard 3/8 inch nap roller and is also a sprayable product. Contact Novagard for recommended spray equipment. Apply at a wet film thickness of 20 mils. At the recommended thickness, coverage is approximately 125 ft² per gallon; actual coverage may vary depending on substrate porosity and site conditions. Cure and dry times will vary based on ambient temperature and humidity conditions.

STANDARDS

- AAMA 714-19
- ASTM E2357
- ASTM E84, class A rating

AVAILABILITY

NovaBarrier™ AWB1000 is available in 5 gallon pails.

COLORS

Available in black. Paintable.

VOC CONTENT

NovaBarrier™ AWB1000 has typical VOC Content of < 21 g/l (<2%). 50 state VOC Compliant (<4%).

TYPICAL PHYSICAL PROPERTIES*

Property	Test Method	Typical Value
Sealant Chemistry		Hybrid
Solid Content		> 98%
Application Thickness		20 mils (wet)
Skin Time		40 min
Application Temperature		0°F to 150°F (-18°C to 66°C)
Temperature Resistance		248°F (120°C)
Tensile Strength	ASTM D412	180 psi (1.24 MPa)
Elongation	ASTM D412	230%
Air Permeance	ASTM E2178	Pass - ≤ 0.0394 cfm/ft2 at 1.57 psf
Water Vapor Permeance	ASTM E96	20.5 @ 20 mil (wet cup) 13.6 @ 20 mil (dry cup)
Slump/Sag	ASTM D2202	None/Negligible at recommended mils
Hardness (Shore A)	ASTM C661	21
Freeze Thaw Resistance	ASTM E2485	Pass - No surface changes
Fungi Resistance	ASTM C1338	Pass - No Growth
Crack Bridging (1/16in)	ASTM C1305	Pass
Low Temperature Flexibility	ASTM D522	Pass - No surface changes
Peel Adhesion to Concrete	ASTM C794	10.8 pli
Peel Adhesion	ABAA T0002	244 psi (fiberglass mat-faced gypsum panel) 497 psi (OSB)
Water Penetration Around Nails	ASTM D1970	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 manufacturer for additional information.

ASTM E2357: STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES

Test	Standard	Results
Air Leakage Rate	≤ 0.0394 cfm/ft2 at 1.57 psf	Pass
	≤ 0.2 L/s.m ² at 75Pa	Pass

ASTM E84: SURFACE BURNING CHARACTERISTICS

Test	Standard	Results
Flame Spread	≤ 25	25
Smoke Developed	≤ 450	90

NFPA Class A, UBC Class 1

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STORAGE

NovaBarrier™ AWB1000 has a shelf life of eighteen (18) months from the date of manufacture when stored in a closed, unopened container in a dry place at temperatures between 41°F to 86°F (5°C and 30°C). Freeze-thaw stable.

PRECAUTIONS

Consult and obey all applicable local, state, and federal regulations. For additional information refer to Safety Data Sheet (SDS).

LIMITATIONS

Do not apply to frozen surfaces or during active precipitation. Protect membrane until fully cured.

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