

BLUE MAX

LIQUID APPLIED AIR BARRIER

Technical Data Sheet

Description

Ames'® Blue Max® Liquid Applied Air Barrier™ is a premium rubber, acrylic, high build coating for creating a monolithic barrier, enveloping shield in the construction of new buildings. It is for roofs, interior/exterior walls, basements, foundations, both above and below grade. Blue Max can be used both as an air barrier and drain plane behind siding, brick, stone, panels & other exterior finish materials. It is heavy duty, yet easily applied by brush, roller or sprayer. It dries to form a shield to keep water, moisture at bay and an airtight seal from the flow of uncontrolled air. This product is an elastomeric sealant, adhesive and barrier coating that expands and contracts up to 1200%. It is highly resistant to cracking and peeling, remains flexible at -35°F and is mildew resistant. Ames' Air Barrier is also very easy to clean up with water. Ames' Air Barrier is ideal for: tar coated walls, brick or block walls, interior and exterior basement walls, pressure treated plywood, sheet metal, precast concrete, stucco, wood and Gypsum sheathing substrates. This product contains no toxic substances after curing. Ames' Liquid Applied Air Barrier is a lasting coating investment for your construction project

Features and Benefits

- Simple application procedure without special tools or equipment
- Easily coats rough and porous surfaces

- Can be used in high moisture exposure areas
- Monolithic airtight membrane is formed
- Self-sealing capabilities around fasteners
- Warranted air vapor barrier system (1-year product quality warranty)
- Air Barrier Association of America Evaluated

Project Conditions

Building Codes and Project specifications require continuity of the air barrier installation. We recommend you always review your local building codes when selecting any product for your project. It is the installer's responsibility to understand the extent and sequencing of air barrier installation on the project. Do not proceed with installation until substrate and project conditions conform to requirements specified in this document. Identify any membranes, coatings, sealants, tapes and joint compounds by others which will come into contact with accessories, and verify compatibility through Ames Research Laboratories, Inc. All surfaces accepting and accessories shall be clean, dry, frost free and of sound condition. Verify that wall assemblies are dried in, such that water intrusion will not occur from above, behind or around the membrane installation. Gaps and cracks exceeding 1/8" across shall be filled with materials and techniques approved by Ames Research Laboratories, Inc. Electrical/mechanical penetrations, structural steel penetrations, columns/beams, expansion/seismic joints, shelf

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angles, tie-ins to fenestration and transitions to other building assemblies may require extra work and materials to provide suitable surfaces for continuous installation of the air barrier. Consult Ames Research Laboratories, Inc. with details for guidance.

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Substrate Inspection

Concrete

Shall be thoroughly cured in place. Shall be smooth, with sharp protrusions such as cold joints ground fl us. Honeycomb and holes/cracks exceeding 1/8" across shall be filled with grout or mortar.

Concrete Masonry Unit (CMU)

Mortar joints shall be struck flush and shall be free of voids exceeding 1/8" across. Mortar droppings shall be removed from brick ties and all other surfaces accepting Blue Max Liquid Applied Air Barrier and accessories. Allow mortar joints to thoroughly prior to application of the Blue Max Liquid Applied Air Barrier and accessories.

Gypsum Sheathing

Sheathing boards shall be flush at joints, with gap between boards according to building code and sheathing manufacturer's requirements. Sheathing boards shall also be securely fastened to the structure with proper fastener type, technique and spacing according to building code and sheathing manufacturer's requirements. Sheathing boards shall be repaired or replaced if inspection reveals moisture damage, mechanical damage and if sheathing boards have exceeded the exposure duration or exposure conditions as required by the sheathing manufacturer.

OSB, Plywood, Lumber, Pressure-Treated Wood

Wood sheathing inspection carries the same protocol given for gypsum sheathing. Also, moisture content, measured with a wood moisture meter in the core of the substrate,



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shall be below 12%. Do not cover any wooden materials with Blue Max Liquid Applied Air Barrier and accessories if moisture content is 20% or above. In most cases, fire rated, and pressure-treated wood must be kiln dried to accommodate the less than 20% moisture content requirement.

Foam Insulation Board

Foam insulation board shall be repaired or replaced if inspection reveals mechanical damage or surface damage. Holes/cracks exceeding 1/8" across shall be properly repaired.

Clean Up

Promptly clean uncured material from hands, tools, surfaces and spray equipment with a solution of warm tap water.

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Typical Physical and Performance Properties

Color.....	Colonial Blue
Mold and Mildew resistance.....	ANSI 118.10 Section 4.1 No Growth
Vapor Permeability.....	ASTM E96 Desiccant Method 0.117 perms, Water Method 0.49 perms
Air Permeance.....	ASTM E2178 Air Permeance 0.00010 cfm/ft. ² at 1.56lb/ft ² exceeds minimum ASTM E2357 All tests meet the performance requirements PASS
Adhesion to DensGlas.....	ASTM D4541 Method B 43.3 psi exceeds minimum
Adhesion to CMU.....	ASTM D4541 Method B 80.2 psi exceeds minimum
Adhesion to Hardy Board.....	ASTM D4541 Method B 198.8 psi exceeds minimum
Self-Sealability.....	ASTM D1970 Section 7.9 No water found underside of nails
Hydrostatic Pressure Test.....	ATCC 127-17 55 cm head pressure for 5 hours. 35 ft. underwater PASS
Elongation.....	ASTM D2370 up to 1000 %. At 50 mils DFT
Strength.....	ASTM D2370 250+ psi when heavy duty contouring roof fabric is used.
Viscosity.....	ASTM D2196 4100-5100 cps spindle. # 6@100 rpm
pH as shipped.....	ASTM E70 9.0-9.5
Weight per gallon.....	ASTM D1475 8.36 lbs./gal
Humidity.....	Best applied at 50% humidity or below.
Freeze/Thaw Stability Test of Dried Material.....	At -35° F, Blue Max Liquid Rubber passes 180-degree bend test.
Cure time.....	At 40° - 80° F. 2 to 8 hours. allow 24 hours total curing. For best adhesion allow product to cure for up to 7 days.
Flash point.....	ASTM D93 >200° F (estimated)
Coverage Rate.....	Approximately 100 square feet per gallon.
VOC Content.....	Less than 1 gram per liter.

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Limitations

- Do not allow product in packaging to freeze. Product is not freeze stable.
 - Do not apply during rain.
- Do not proceed if ambient temperature is below 40°F
- Do not apply if the temperature is expected to drop below 32°F in the next 16-24 hours.
- Do not install in area expected to reach 180°F or above
- Maximum permitted exposure time of Ames'® Blue Max® Air Barrier™ on a vertical wall and horizontal surfaces is 2 weeks.
- Do not install over PVC membrane, silicone, uncured sealants or other incompatible material.
- Do not apply solvent based material over Ames'® Blue Max® Air Barrier™

Inspection, Testing and Repair

Inspect Blue Max Liquid Applied Air Barrier™ thoroughly for pinholes, blisters or other voids in the membrane. If defects are detected re-apply monolithic coating until the specified minimum thickness is achieved.

Inspect the air barrier system before covering and repair any punctures or damaged areas, make repairs as directed by Ames Research Laboratories, Inc.

If on site adhesion testing is required. ASTM D4541 standard test for Pull-Off Strength of coatings using a portable adhesion tester is recommended.

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