

BLUE MAX

INTERIOR & BELOW-GRADE EXTERIOR
for Wood, Concrete & Masonry

Technical Data Sheet

Description

Ames'® Blue Max® Liquid Applied Waterproofing Coating is a premium rubber, acrylic, high build coating for creating a monolithic barrier, enveloping shield in the construction of new buildings and remediation. It is for roofs, interior, exterior walls, basements, foundations, both above and below grade. Blue Max can be used as the principle, sole membrane and by itself as an air barrier. 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 air tight 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. It is also very easy to clean up with water. Ames' Blue Max is ideal for: poured concrete, tar coated walls, brick or block walls, interior and exterior basement walls, pressure treated plywood, sheet metal, plastic, precast concrete, stucco, wood and Gypsum sheathing. This product contains no toxic substances after curing. Ames' Blue Max is a Liquid Applied Waterproofing Monolithic Membrane that 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

Applications

- EPDM
- Tar & Gravel
- Asphalt
- Concrete
- Rolled Roofing
- Smooth Asphalt Built-Up Roofs
- Modified Bitumen
- Metal, Galvanized Steel
- PVC
- ICF (Insulated Concrete Form),
- Concrete: Precast, Poured and Cinderblock
- Treated Plywood, Plastic, Stucco, Wood and Gypsum Sheathing

Project Conditions

Building Codes and Project specifications require continuity of the installation. It is the installer's responsibility to understand the

BLUE MAX

INTERIOR & BELOW-GRADE EXTERIOR
for Wood, Concrete & Masonry

extent and sequencing of 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 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 waterproof membrane. Consult Ames Research Laboratories, Inc. with details for guidance.

Substrate Inspection

Concrete

Shall be cured in place seven days minimum. 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 Waterproof Membrane and accessories. Allow mortar joints to dry a minimum of three days prior to application of the Blue Max Liquid Applied and accessories.



Project: 10,000 SF Slip-Poured Concrete Silo Below-Grade Coated with Ames Blue Max Liquid Rubber Waterproof Membrane.

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.

BLUE MAX

INTERIOR & BELOW-GRADE EXTERIOR
for Wood, Concrete & Masonry

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, shall be below 20%. Do not cover any wooden materials with Blue Max Liquid Applied 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 and soap.



Ames BMX-1200 with Ames Maximum Stretch High UV and Thermal Reflectance up to 98%. High Elasticity and Flexibility up to 750%.

BLUE MAX

INTERIOR & BELOW-GRADE EXTERIOR
for Wood, Concrete & Masonry

Typical Physical and Performance Properties

Appearance (cured).....	Rubberized Plastic Protective Membrane and coating.
Appearance (liquid).....	Thick, Creamy
Color.....	Colonial Blue
Mold and Mildew resistance.....	Excellent
Solvent.....	Water
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
Adhesion to DensGlas.....	ASTM D4541 Method B 43.3 psi exceeds minimum ASTM
Adhesion to CMU.....	D4541 Method B 80.2psi exceeds minimum ASTM D4541
Adhesion to Hardie Board.....	Method B 198.8 psi exceeds minimum
Self-Sealability.....	ASTM D1970 Section 7.9 No water found underside of nails PASS
Hydrostatic Pressure Test.....	ATCC 127-17 55 cm head pressure for 5 hours. 35 ft. underwater PASS
Elongation.....	ASTM D2370 up to 750%.
Strength.....	ASTM D2370 250+ psi when heavy duty contouring roof fabric is used.
Viscosity.....	ASTM D2196 4050 cps spindle. # 7@100 rpm
pH as shipped.....	ASTM E70 9.0-10.0
Weight per gallon.....	ASTM D1475 9.163 lbs./gal
Bonding.....	Bonds to most surfaces including tar, metal and rolled roofing. Does not bond to wax base surfaces.
Humidity.....	Best applied at 50% humidity or below.
Freeze/Thaw Stability Test of dried material.....	At -35° F, Blue Max passes 180-degree bend test. 15 min. -1 hour at 40 - 100 F. at less than 50% humidity. Allow 24 hours between applications
Setting time.....	
Cure time.....	At 40° - 80° F. 2 to 8 hours. For best adhesion allow product to cure for up to 7 days.
Toxicity.....	Non-toxic after curing.
Flashpoint.....	ASTM D93 1500° F. (estimated)
Fire rating.....	ASTM E-108 Class "A" over AC. ASTM E-84 zero smoke.
Coverage rate.....	Approximately 100 square feet per gallon.
VOC Content.....	Less than 1 gram per liter.

BLUE MAX

INTERIOR & BELOW-GRADE EXTERIOR
for Wood, Concrete & Masonry

Sprayable, Roll-able & Brush-able

Suggested Sprayer Specifications

- Hydraulic Pressure: > 900 psi (10.2 gpm)
- Displacement: > 3000 psi
- Max. Working Pressure: > 2 gpm (7.5 lpm)
- Maximum Working Pressure: > 4000 psi
Delivery: > 2.0 gpm
- Tip Size: >.027 - .040 Reversa tip.
- 18" wide pattern @ 12" to 18" away
- Hose size: 3/8" up to 150' (> 150' step-down to 1/4" hose)



Container Sizes:

- 5 – Gallon Pails
- 55 – Gallon Drums
- 250 – Gallon Tote
- 275 – Gallon Tote
- 300 – Gallon Tote



Limitations

- Do not allow product in packaging to freeze.
- 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 hours.
- Contact Ames' Coating & Waterproofing specialist when installing in an area expected to reach 180°F or above
- Maximum permitted exposure time of Ames'® Blue Max on a vertical wall and horizontal surfaces is 30 days.
- Do not install over PVC membrane, silicone, uncured sealants or other incompatible material.
- Do not apply solvent based material over Ames'® Blue Max.

Inspection, Testing and Repair

Inspect Blue Max Liquid Applied Waterproof 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 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.