



Technical Data Sheet

Blue Max® Original Liquid Rubber Waterproofer

For Roofs & Foundations

Stock Code

BMXRG Series

Packaging Information

- 1 Gallon Pail
- 5 Gallon Pail
- 55 Gallon Drum
- 250 Gallon Tote

Characteristics

Blue Max® Original Liquid Rubber Waterproofer has 1200% elongation that resists cracking and peeling. Blue Max® is ideal for waterproofing below-grade and insulated concrete foundations, basements, and underlayment. Blue Max® can also be used as a primer in many roof coating systems. Air Barrier Association of America evaluated.

VOLUME SOLIDS	46%
WEIGHT PER GALLON	ASTM D1475 8.36 lbs. CMU - ASTM D4541 Method B 80.2 psi exceeds minimum
ADHESION TO VARIOUS SUBSTRATES	Hardie Board – ASTM D4541 Method B 198.8 psi exceeds minimum DensGlass – ASTM D4541 Method B 43.3 psi exceeds minimum
COLOR	Translucent Blue
COVERAGE	1 gallon per 25 sq. ft. per coat dependent on system application (2 coat minimum for sprayer, 4 coat minimum for roller) 1 gallon per 100 sq. ft. per coat when used as a primer in roofing & deck applications
DRY FILM THICKNESS (@ 1 GAL/25 SQ. FEET)	7.5 Mils per coat (30 Mils total DFT required)
DRY TIME	Allow 24 hours between coats
CURE TIME	7-10 days
ELONGATION	ASTM D2370 up to 1200%
FLASH POINT	>200°F
HUMIDITY	Best applied at 50% humidity or below
AIR PERMEANCE	ASTM E2178 Air Permeance 0.00010 cfm/ft ² at 1.56lb/ft ²
SEAM STRENGTH	ANSI 118.10 Section 4.2 114 lb./in-Perpendicular to Seam 46.3 lb./in-Parallel to Seam
MOLD & MILDEW RESISTANCE	ANSI 118.10 Section 4.1 No Growth
PH AS SHIPPED	ASTM E70 9.0-9.5
BREAKING STRENGTH	ANSI 118.10 Section 4.3 1.540 psi Machine direction 512 psi Cross Direction
SHELF LIFE	24 Months Unopened
DIMENSIONAL STABILITY	ANSI 118.10 Section 4.4 -0.17% (70°C) -0.17% (-26°C)
V.O.C CONTENT	< 1 g/l
VAPOR PERMEABILITY	ASTM E96 Desiccant Method 0.117 perms. Water Method 0.49 perms
VISCOSITY	ASTM D2196 4100-5100 cps spindle # 6@100 rpm ANSI 110.10 Section 5.0 138 psi (7-day) 89.4 psi (7- day water immersion)
SHEAR STRENGTH	125 psi (Four-Week) 140 psi (twelve-Week) 76.6 psi (100 - day water immersion)

Compliance

SCAQMD	Yes
LEED® V4 & V 4.1 EMISSIONS	Yes
LEED® V4 & V4.1 V.O.C	Yes
CARB & CARB SCM 2007	Yes
OTC & OTC PHASE II	Yes

Surface Preparation

All surfaces must be sound and free of frost, dirt, grease, oil, spalled areas, loose nails, screws, sharp protrusions, or other contaminants that will hinder the adhesion of the membrane installation. Clean loose dust and dirt from the surface by brushing or wiping with a clean, dry cloth brush or broom. Do not cover wet or soft spots in roof insulation until dry or replaced.

Concrete

Should be cured in place 28 days minimum. All surfaces need to be smooth, with sharp protrusions such as cold joints ground flush. Honeycomb, holes, cracks, and joints exceeding 1/8" and up to 5/8" across shall be filled with Blue Max® Trowel or Blue Max® Caulk.

Concrete Masonry Unit (CMU)

Mortar joints shall be struck flush and free of voids exceeding 1/8" across. Mortar droppings shall be removed from brick ties and all other surfaces accepting Blue Max® Liquid Rubber Waterproofer Membrane and accessories. Allow mortar joints to dry a minimum of 28 days prior to application of the Blue Max® and accessories. The exposure duration or exposure conditions as required by the concrete manufacturer.

OSB, Plywood, Lumber, Pressure-Treated Wood

Wood and wood sheathing need to be flush at joints with gaps between boards according to building codes and manufacturers requirements. Moisture content, measured with a wood moisture meter in the core of the substrate, requirement is below 20%. Do not cover any wooden materials with Blue Max® and/or accessories if moisture content is 20% or above.

Application Methods

Apply between 50° - 90° F on a warm dry surface. Surface temperature must be 5°F higher than the dew point and rising

- **Brush:** Nylon/polyester
- **Roller:** 3/8" - 1/2" nap nylon/polyester
- **Sprayer:** Always use airless equipment
 - **Small Projects** – Flow rate of 0.60 GPM (i.e. Graco 495 airless). 2500 - 3000 psi. Tip size 0.412 to 0.521. Hose size 1/4 in.
 - **Large Projects** – Flow rate of 1.0 - 2.0 GPM (i.e. Graco 695 airless). 2500 to 3000 psi. Tip size .417 to .625. Hose size 1/4 in. to 3/8 in.

Application Instructions

Review product Application Guide before proceeding. Contact Ames Research Laboratories Technical Service Department for questions pertaining to the coating system application and required coating film thickness. Conduct a test patch to ensure proper adhesion.

- Blue Max® must be top coated with a high-quality acrylic paint for all exterior vertical wall exposures. On interior wall surfaces, Blue Max® must be top coated with a high-quality acrylic paint for washability
- Blue Max® used as a waterproofing base coat on roofs must be top coated with the appropriate Ames® roof coating finish coat
- Do not apply Blue Max® if the temperature is expected to drop below 32° F within 24 hours of application
- Do not apply over wet substrates
- Do not apply in high heat areas of 180°F or more

Disclaimer

The information and specifications set forth in this Technical Data Sheet are based on tests conducted by or on behalf of Ames Research Laboratories, Inc. All information is subject to change and pertains to the product available at time of publication. Please contact Ames Research Laboratories to receive the most recent Technical Data Sheet.

Clean-up, Storage & Disposal

- Clean up application equipment, tools, spills, hands immediately after use with water
- Store unused product in the original container tightly sealed
- Dispose of this product in accordance with local, state, or federal requirements
- Protect from freezing

Cautions

- Do not take internally
- Keep out of reach of children
- Avoid contact with skin and eyes
- Use hand and eye protection when using this product
- Wash with soap and water after contact with skin
- If eye-contact occurs rinse with clean water and seek medical advice if symptoms continue

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BLUE MAX REFERENCE GUIDE FOR SELECT ROOFS & WATERPROOFING

To determine what products you need, you first need to know the condition of your roof or foundation. Is it savable? How old is it? Is it leaking? Is it badly or severely deteriorated? What is the size of the roof or foundation in square feet? The answers to these questions will help determine the products and quantity you may need.

ROOF PROJECT	ROOF APPLICATION
Metal, Tin & Aluminum with Rust	Apply reinforcing seam tape or embedded fabric to seams. Replace and seal exposed fasteners. Prime with Ames Blue Max at 1 gallon per 100 sq. ft. Follow with 2 gallons per 100 sq. ft. of Maximum Stretch
EPDM - TPO	Pre-clean oxidized film and surface contaminates from existing roof. Apply reinforcing seam tape or embedded fabric to seams, Prime with Ames Blue Max at 1 gallon per 100 sq. ft. Follow with 2 gallons per 100 sq.ft. of Maximum Stretch
Modified Bitumen & Other Rolled Roofing	Apply reinforcing seam tape or embedded fabric to seams, Prime with Ames Blue Max at a rate of 1 to 2 gallons per 100 sq. ft. depending on surface porosity. Follow with 2 gallons per 100 sq. ft. of Maximum Stretch
Concrete	New & leaking concrete - Waterproof with Ames Blue Max applied at a rate of 2 gallons per 50 sq.ft. Follow with 2 gallons per 100 sq.ft. of Maximum Stretch Existing Roof not leaking - Prime with Ames Blue Max applied at a rate of 1 gallon per 50 sq.ft Follow with 2 gallons per 100 sq.ft. of Maximum Stretch
WATERPROOFING PROJECT	WATERPROOFING APPLICATION
Poured Concrete Below-Grade Foundations	Waterproof with Ames Blue Max applied at a rate of 2 gallons per 50 sq. ft. (will need to be applied in two coats to achieve this coverage rate) Prepare surfaces before applying Blue Max as detailed in surface specific application guide
Concrete Block-Brick & Red Tile Below-Grade Foundations	Waterproof with Ames Blue Max applied at a rate of 2 to 3 gallons per 50 sq. ft. depending on surface porosity. (will need to be applied in two or more coats to achieve coverage rate) Prepare surfaces before applying Blue Max as detailed in surface specific application guide
ICF - Insulated Concrete Block Below Grade Foundations	Waterproof with Ames Blue Max applied at a rate of 2 gallons per 50 sq. ft. (will need to be applied in two coats to achieve this coverage rate) Prepare surfaces before applying Blue Max as detailed in surface specific application guide
Horizontal Concrete & Wood Slabs, Decks & Patios	Waterproof with Ames Blue Max applied at a rate of 2 gallons per 50 sq. ft. (will need to be applied in two coats to achieve this coverage rate) Blue Max is intended as waterproofing under other finishes. First prepare surfaces as detailed in surface specific application guide

We recommend you contact us directly to assist in determining the right specification for your specific project. We have extensive application information available in our various Application Guides for all of our Roof and Foundation Coating Systems. Consult our application guide to determine number of coats to apply to achieve the desired results. Do not use on shingle roofs.