



# 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 is ideal for above and below-grade waterproofing applications including insulated concrete forms, foundations, basements, and more. Blue Max has 1200% elongation to resist cracking and peeling and can be used on concrete, masonry, wood, metal and more. Blue Max can also be used as a primer in many roof coating systems and has been Air Barrier Association of America evaluated.

|                                           |                                                                                                                                                                                                                      |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VOLUME SOLIDS                             | 46%                                                                                                                                                                                                                  |
| WEIGHT PER GALLON                         | ASTM D1475 8.36 lbs.                                                                                                                                                                                                 |
| ADHESION TO VARIOUS SUBSTRATES            | <b>CMU</b> - ASTM D4541 Method B 80.2 psi exceeds minimum<br><b>Hardie Board</b> - ASTM D4541 Method B 198.8 psi exceeds minimum<br><b>DensGlass</b> - ASTM D4541 Method B 43.3 exceeds minimum                      |
| COLOR                                     | Translucent Blue                                                                                                                                                                                                     |
| COVERAGE                                  | 1 gallon per 25 sq. ft. for waterproofing applications (2 coat min. for sprayer, 4 coat min. for roller)<br>1 gallon per 100 sq. ft. 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 for waterproofing)                                                                                                                                                              |
| DRY TIME                                  | 5 Mils DFT - Recoat in 2 hours<br>10 Mils DFT - Recoat in 3.5 hours                                                                                                                                                  |
| CURE TIME                                 | 7-10 days                                                                                                                                                                                                            |
| ELONGATION                                | ASTM D2370 up to 1200%                                                                                                                                                                                               |
| FLASH POINT                               | >200°F                                                                                                                                                                                                               |
| HUMIDITY                                  | Best applied below 50% humidity                                                                                                                                                                                      |
| AIR PERMEANCE                             | ASTM E2178 Air Permeance 0.00010 cfm/ft² at 1.56lb/ft²                                                                                                                                                               |
| 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                         | <b>ANSI 118.10 Section 4.3 1,540 psi Machine direction 512 psi Cross Direction (Fabric Reinforced)</b>                                                                                                               |
| 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<br>ANSI 110.10 Section 5.0 138 psi (7-day)<br>89.4 psi (7- day water immersion)<br>125 psi (Four-Week)<br>140 psi (twelve-Week)<br>76.6 psi (100 - day water immersion) |
| SHEAR STRENGTH                            |                                                                                                                                                                                                                      |

#### Compliance

|                           |     |
|---------------------------|-----|
| SCAQMD                    | Yes |
| LEED® V4 & V4.1 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, 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.

#### Concrete

Should be cured in place for a minimum of 28 days. All concrete surfaces should have the appearance of 80 grit sandpaper to promote adhesion. All sharp protrusions such as cold joints shall be ground flush. Honeycomb, holes, cracks, and joints 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 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 above 20%.

#### 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. Airless sprayer specs must meet or fall between the parameters displayed below.
- **Minimum Sprayer Requirements** - Tip Orifice Size: 0.015, Flow Rate (GPM): 0.34, Maximum Working Pressure (PSI): 3,000, Hose Size: 1/4 inch
- **Maximum Sprayer Requirements** - Tip Orifice Size: 0.065, Maximum Flow Rate (GPM): 4.0, Maximum Working Pressure (PSI): 4,000, Hose Size: 3/8 inch reduced to 1/4 inch

#### 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 base coat on roofs must be top coated with an appropriate Ames topcoat
- Do not apply if the temperature is expected to drop below 32° F within 24 hours of application or 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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