



Technical Data Sheet

Blue Max® Tile & Floor



Stock Code

BMX3.5TILE

Packaging Information

- 3.5 Gallon Pail

Characteristics

Blue Max® Tile & Floor is a tough blue elastomeric waterproofing rubber. It can be used in both residential and commercial applications where a waterproofing membrane is needed during the application of floor and wall tiles. Blue Max Tile & Floor meets Uniform Plumbing Code specifications for use as a shower pan liner.

VOLUME SOLIDS	46%
WEIGHT PER GALLON	ASTM D1475 8.36 lbs.
ADHESION TO VARIOUS SUBSTRATES	CMU - ASTM D4541 Method B 80.2 psi exceeds minimum 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. dependent on system application (2 coat minimum for sprayer & 4 coat minimum for roller)
DRY TIME	5 Mils DFT - Recoat in 2 hours 10 Mils DFT - Recoat in 3.5 hours
CURE TIME	7-10 days
ELONGATION	ASTM D2370 up to 1200%
DRY FILM THICKNESS (@ 1 GAL/25 SQ. FEET)	15 mils per coat (30 Mils total DFT required)
FLASH POINT	>200°F
HUMIDITY	Best applied at 50% humidity or below
AIR PERMEANCE	ASTM E2178 Air Permeance 0.00010 cfm/ft² @ 1.56lb/ft²
SEAM STRENGTH	ASTM 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 (Fabric Reinforced)
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) 125 psi (Four-Week) 140 psi (twelve-Week) 76.6 psi (100 - day water immersion)
SHEAR STRENGTH	

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, 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.

Application Methods

- **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 412 (8" fan 0.012 orifice size) to 521 (10" fan 0.021 orifice size). Hose size 1/4"
 - **Large Projects** Flow rate of 1.0 - 2.0 GPM (i.e. Graco 695 airless). 2500 to 3000 PSI. Tip size 417 (8" fan 0.017 orifice size) to 625 (12" fan 0.025 orifice size). Hose size 1/4" to 3/8"

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.

- Ensure area to be filled is clean of debris and loose material. Use a wire brush if needed to remove loose material
- Please refer to Application Guide for film thickness requirements to meet ANSI 118.10 and IAMPO requirements
- Do not allow product in packaging to freeze
- Do not install in area expected to reach 90°F or above
- Do not use as a wear surface: the membrane must be covered with tile or other permanent flooring
- Do not apply over wet substrates

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

Ames Research Laboratories, Inc.

1891 16th St SE | Salem, OR 97302

888-345-0809 | 503-588-3330 | sales@amesresearch.com

SHOWER APPLICATION/INSTALLATION GUIDE

Recommended Products: Blue Max® Tile & Floor, Trowel Grade, Caulk, Ames® ARF 100

DIAGRAM A

Step 1 INSPECTION OF SUBSTRATES:

Insure that surfaces are clean & dry, backer board fully installed, fasteners installed flush. Verify that shower floor has been sloped 2% ($\frac{1}{4}$ " per foot) to drain outlet per code*.

Step 2 PREFILL:

Prefill joints over $\frac{1}{8}$ ", minor overcuts around wall penetrations, and other voids with Blue Max® Trowel Grade® or Blue Max® Caulk. (Diagram B)

Step 4 BLUE MAX® TILE & FLOOR® APPLICATION LIQUID MEMBRANE:

Apply first coat of Blue Max® Tile and Floor® using a brush, roller, or sprayer in a minimum wet film thickness of 32 mils. (verify with wet mil measuring gauge) Allow to dry 24hrs and repeat process for second coat. Most sprayers will apply Blue Max® Tile and Floor® in two coats. Brush and rolling may req. additional coats to attain needed thickness of membrane.

Step 3 REINFORCING FABRIC AT DETAILS:

Apply a 5-6" wide path of Blue Max® Tile & Floor over the crack, joint or gap, around the shower head and mixer valve (See Diagram A) while the Blue Max® material is still wet, immediately proceed to lay (remove out) 4" wide Ames ARF100 fabric over these areas in to the wet Blue Max® Liquid - roll over the fabric to fully embed into the wet material beneath. Immediately apply more material to fully saturate the fabric and fill any pinholes. Repeat this at the connection to drain hub to sloping mortar (See Diagram C) -Allow to dry overnight.

Step 5 CLAMPING RING & LEAK TESTING:

After Blue Max® has cured* install plumbers clamping ring where specified then plug drain and complete Code* required leak testing. (See diagram D)

Step 6 SLOPING & TILE INSTALLATION (OPTIONAL):

After required leak testing has been completed install any desired additional sloping mortar, being careful not to block plumbers weep holes at clamping ring or flange. (DIAGRAM D)

DIAGRAM B

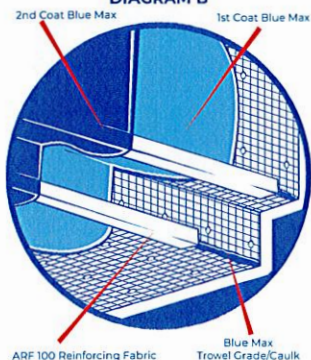


DIAGRAM C

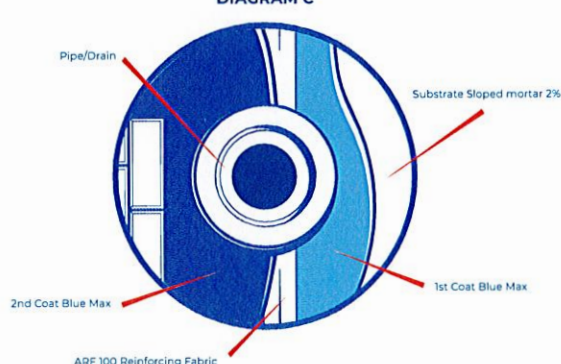
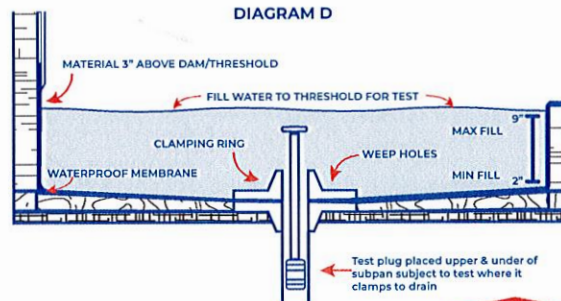


DIAGRAM D



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