



## Technical Data Sheet

### Description

Ames Blue Max Tile and Floor is a ready mixed single component rubberized elastomeric liquid applied material for use under tile in both interior and exterior applications. Cured material forms a monolithic, impermeable membrane required for shower pans, tub surrounds with horizontal and vertical tile, stone installations on walls, floors, slabs on grade.

### Features and Benefits

- Simple application - roller, brush or airless spray applied
- Ready Mixed
- Bonds well to prepared metal plated or stainless-steel drains and other drain assemblies including PVC and ABS.
- Passes ANSI 118.10 for the installation of ceramic tile.
- IAMPO for use as a shower pan liner
- 10-year Warranty
- Commercial/ Residential

### Uses

- Shower Pans, Enclosures, Stalls & Tub Surrounds
- Under Ceramic, Quarry Tile, & Stone Floor & Wall Finishes
- Under Concrete Countertops
- Inner slab membrane applied over mud slabs prior to final topping slab pours
- Elevated deck substrates prior to concrete topping slabs or tile installations
- Contact our Technical Services if you are contemplating a use not mentioned.

### Acceptable Substrates

- Plywood Exterior, Marine Grade & structural OSB on Decks (when used under other finishes)
- Cement Backer Board
- Concrete Walls and Floors
- Cement Masonry & tightly adhering parge coated cement masonry.
- Existing tightly bonded Ceramic Tile & Resilient Flooring (see also surface preparation of existing finish materials)

### Limitations

- Do not allow product to freeze in shipping, storage or during cure
- Do not apply in inclement weather, when rain is expected
- Do not apply over wet substrates

- Do not apply if temperature is expected to drop below 32° F (0° C) within 16 hours of application
- Do not install in high heat areas of 180° F (82° C) or above
- Do not use as a wear surface: the membrane must be covered with tile or other permanent finish

### Inspection, Testing and Repair

- Inspect Blue Max thoroughly for pinholes, blisters or other voids in the membrane
- If defects are detected re-apply monolithic coating until specified minimum film thickness is achieved
- If on site adhesion testing is required ASTM D4541 standard test for pull off strength of coatings using a potable adhesion tester is recommended

### Protection

- If tile or stone will not be set immediately after curing. Protect the membrane from rain and inclement weather, potential construction traffic damage and direct UV (sunlight)
- Care should be taken to prevent the application from becoming soiled or punctured during and after application

### Project Conditions

- Building Codes and Project specifications require the continuity of the tile and stone installations.
- It is the installers responsibility to understand the extent and sequencing of the installation on any project
- Do not proceed with installations until substrate and project conditions conform to requirements specified in this document
- For questions not answered in this document contact technical and customer services

### Curing of product

- Blue Max® is dry when it turns deep dark blue, with no visible light blue color
- Variations in dry time can be expected in high humidity and low temperatures.
- Full cure is typically achieved in 7-14 days
- After the appropriate film thickness is achieved and all applied coats are fully cured, the application area can be flood tested.

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### Ames Research Laboratories, Inc.

1891 16<sup>th</sup> St SE | Salem, OR 97302

888-345-0809 | [productservices@amesresearch.com](mailto:productservices@amesresearch.com)

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### Application Detail Work

- Cracks, Joints and Gaps over 1/4" up to 5/8" should be cleaned then pre-filled with Blue Max Trowel Grade. Blue Max Tile and Floor is applied 2" on either side of the crack, 4" wide strip of Ames Reinforcing Fabric (ARF 100) is then centered over the joint, embedded in the wet material then roller or troweled flat to remove air bubbles or wrinkles in the fabric and fully cover the embedded fabric.
- Control Joints and Expansion Joints in floor slabs need to be pre-filled with trowel grade Blue Max then reinforced with 4" fabric while the material is wet. Fully embed the fabric into the wet Blue Max material. These joints subject to movement need to be carried through the floor finish material as well with joint trim or flexible joint sealants suitable for the floor manufacturers product(s).
- Flashing at changes in plane such as floor to wall and inside corners should also be reinforced with Ames Fabric with a wet bed of Blue Max material embedded in the same way described for cracks.
- Transitions to drains should also be flashed with embedded Ames Reinforcing Fabric. Also refer to plumbing drain manufacturer for their recommendation in integration of membrane to drain body.
- Allow embedded flashing details to dry before beginning first body coat of anti-fracture membrane.
- If other details not mentioned here exist on your project, contact our Technical Services Dept. for our recommendations in proceeding.

### Application Techniques

- After the detail work has been complete and adjacent materials have been masked or otherwise protected Blue Max Tile & Floor can be applied with a brush, roller, or spray application or a combination of several techniques such as brush first coat and spray or roll succeeding coat(s).
- We recommend the material be applied in two or more coats regardless of method.
- When applying materials with either method please note a mil gauge (wet mil comb) can be used to check the thickness during application.

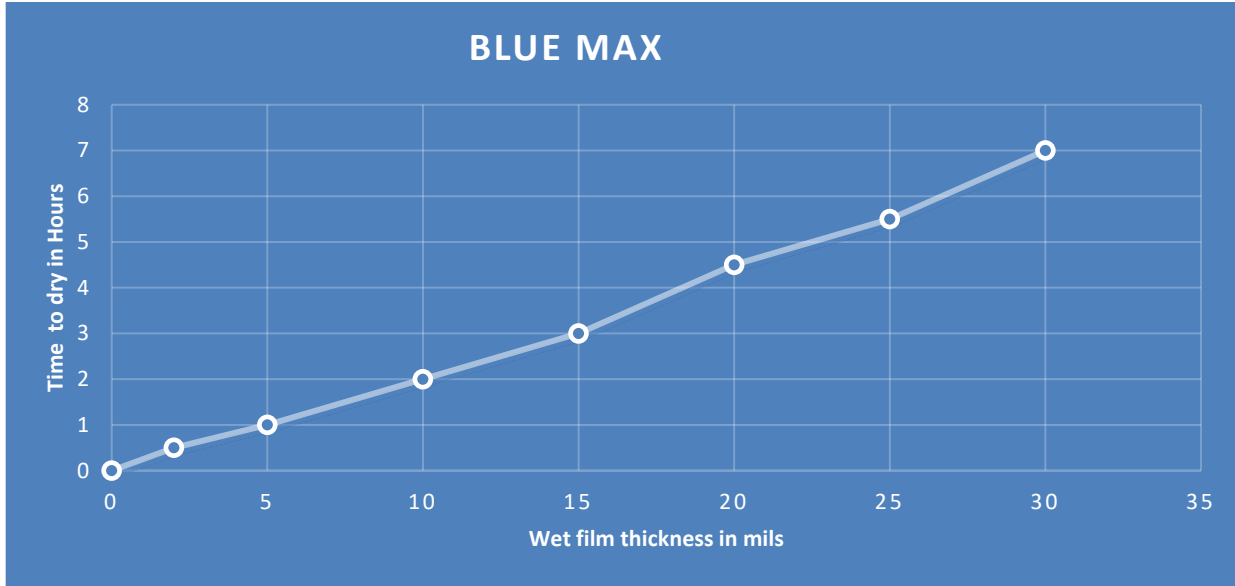
- Regardless of application method a total of 64 mils wet film thickness will be required to be applied to achieve the 30-mil specified dry film thickness for the membrane.
- Remove masking after each coat while the material is wet to avoid excessive cleanup after cure.
- Airless Equipment sizing should be a flow rate of 1.5 to 2 GPM, 2500 to 3000psi, tip sizes .029 to .045
- If airless has a machine filter in addition to the intake rock screen we recommend either a 40-mesh filter or temporarily removing the machine filter cartridge altogether.
- Airless equipment should be cleaned after use without delay.

### Cleanup

- Water Cleanup done while materials and coatings are wet on tools and equipment.

### Health & Safety

- 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
- If grinding or cutting on existing ceramic tile and mortar, follow OSHA Silica Standard for Construction including the use of a respirator (dust mask) per OSHA's Table 1 in 29 CFR 1926.1153.
- Keep out of the reach of children



\*Dry time is dependent on the amount of coating applied in a single coat  
(based on 50% humidity° 70C)

Blue Max Tile and Floor as a Waterproofing and Crack Prevention Membrane:

<b>Size</b>	<b>Coverage</b>
Blue Max Tile and Floor Waterproofing Membrane	
3.5 Gallon (3.78 L)	350 sq. ft. (9.3 M2)
Blue Max Tile and Floor Waterproofing Membrane meeting ANSI A118.10	
3.5 Gallon (3.78 L)	87.5 sq. ft. (2.3 M2)

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**Typical Physical and Performance Properties**

Color.....	Translucent 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
Seam Strength.....	ANSI 118.10 Section 4.2 114 lb./in-Perpendicular to Seam 46.3 lb./in-Parallel to Seam
Breaking strength.....	ANSI 118.10 Section 4.3 1.540 psi Machine direction 512 psi Cross Direction
Dimensional Stability.....	ANSI 118.10 Section 4.4 0.17% (70° C) -0.17% (-26° C)
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 Hardie 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.....	PASS ATCC 127-17 55 cm head pressure for 5 hours. ANSI 118.10 Section 4.5 No leaks post 48 Hours Pass
Shear Strength.....	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)
Elongation.....	ASTM D6083/ ASTM D412 up to 1000% at 50 mils dry film thickness
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.
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- 10 days.
Shower Pan Liner .....	Certification in process (IAPMO)****
VOC Content.....	Less than 1 gram per liter.

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