

## 1. PRODUCT NAME

TechPro® Moisture Barrier

## 2. MANUFACTURER

Bluestone Products®, a TCC Materials® company  
2025 Centre Pointe Blvd  
Mendota Heights, MN 55120 USA

Phone: 1.651.688.9116  
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## 3. PRODUCT DESCRIPTION

TechPro® Moisture Barrier is an advanced latex polymer-based technology used as a water-resistant membrane applied to all wood or moisture-sensitive backup walls prior to application of TechPro® Polymer-Modified Stone Veneer Base Coat. Part of the TechPro® veneer stone installation system.

### Features and Benefits

- Flexible with exceptional elongation
- Water-resistant
- Solvent free and VOC compliant
- Interior and exterior
- Horizontal and vertical applications
- Will not support mold growth
- Ready to use – no mixing required
- Exceeds ANSI A118.10

### Uses

- Above and below grade walls or floors
- Interior and exterior

### Recommended Substrates

- Concrete \*
- Concrete Masonry Unit (CMU) \*
- Brick masonry \*
- Cement Backer Unit (CBU) \*\*
- Exterior grade plywood \*\*\*
- Plaster \*\*\*\*
- Gypsum wall board \*\*\*\*

\* Suitable as a load bearing substrate for installation of direct adhered stone veneer applications when fully cured.

\*\* Suitable as a substrate that supports its own weight for installation of direct adhered stone veneer applications when verified by CBU manufacturer for exterior use and specific installation instructions are provided.

\*\*\* Suitable as a substrate when verified for exterior use by manufacturer and proper preparation methods are followed.

\*\*\*\* Interior dry areas only.

## SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: [tccmaterials.com](http://tccmaterials.com) or contact TCC Materials® at 651-688-9116 (7:30 AM to 4:00 PM Central US Time).

## CAUTIONS

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered TechPro® brand product(s) under normal environmental and working conditions. Because each project is different, neither TechPro® nor TCC Materials® can be responsible for the consequences—variations in such conditions, or for unforeseen conditions.

## 4. TECHNICAL DATA

	Time	Typical Values	ANSI A118.10
Shear Strength	12 weeks dry	200 psi (1.4 MPa)	>50 psi (0.3 MPa)
Water Immersion	100 days	150 psi (1.0 MPa)	>150 psi (1.0 MPa)
Fungus & Micro Organism Resistance	n/a	Passes	
Breaking Strength	n/a	400 psi (2.8 MPa)	Min. 170 psi (1.2 MPa)
Waterproofness	n/a	Passes	

#### 4. TECHNICAL DATA (cont.)

	Time	Typical Values	ANSI A118.10
Permeability @ 16 mil dry film (30 mil wet)			
Water Vapor Permeance	n/a	0.96 Perms (54.7 nanograins/Pa-s-m <sup>2</sup> )	ASTM E 96-12 Procedure B
Water Vapor Transmission	n/a	0.38 grains/hr-ft <sup>2</sup> (0.26 grains/hr-m <sup>2</sup> )	ASTM E 96-12 Procedure B
Hydrostatic Resistance	n/a	Passes	ASTM D 751
Dimensional Stability	n/a	600%	ASTM D 638
Permeability @ 30 mil dry film (57 mil wet)			
Water Vapor Permeance	n/a	0.27 Perms	ASTM E 96-12 Procedure E (100°F/90% RH)
Water Vapor Transmission	n/a	0.48 grains/hr-ft <sup>2</sup>	ASTM E 96-12 Procedure E (100°F/90% RH)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions.

#### VOC

<11 g/l

#### Packaging

1 gal (3.8 L) tub (BOM #127610)

#### Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

#### 5. INSTALLATION

##### Preparation

- Surface must be clean, dry, hard and free from dirt, loose particles, wax, sealers, curing compounds, grease, paint, efflorescence, and any foreign materials that will inhibit adhesion.
- Walls must be plumb and true with square corners, free of movement, and structurally rigid and sound enough to support the veneer finish.
- Poured concrete or concrete masonry unit (CMU) walls must be fully cured (28 days).

Notify the architect or other designated authority in writing of any defects or conditions that prevent a satisfactory veneer stone installation.

In case of truing or leveling the work of others on concrete surfaces, use a concrete repair product like Vinyl Cement Patch.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

##### Mixing

No mixing is required. Gently stir to re-blend if needed, prior to application.

##### Application

- Apply Moisture Barrier only to surfaces that are frost free and between 40°F–90°F (4°C–32°C) within 24 hours of application and 72 hours thereafter.
- Do not apply in direct sunlight on hot, windy days, or when rain is expected within 24 hours.
- Color will be light purple when applied, dries to dark purple.

##### Pre-treating of corners

1. Using a paint brush fill corners and all cracks or wall/floor intersections that are greater in width than 1/32" (1 mm) and smaller in width than 1/8" (3 mm). Allow to dry.
2. Apply a second coat of the Moisture Barrier and allow to dry.

##### Wall Application

1. Trowel, brush, roll, or spray two coats of Moisture Barrier. For trowel application, use a 3/16 in.x1/4 in. (5x6 mm) V-notch trowel spread the material with the trowel at a 45° angle, then flatten the ridges. Roller should be 3/8 in. (9.5 mm) rough textured, apply a continuous even film, overlapping strokes. For spray application, use an airless sprayer with 1900–2300 psi, a flow rate of 1.0–1.5 gpm, and a tip orifice size of 0.125–0.129. Apply a continuous film with overlapping spray.
2. After allowing the first coat to completely dry, apply a second coat at right angles to each other to assure any pin holes are completely filled. Apply to a minimum total thickness of 30 wet mil thickness, approximately 15 mil per coating. Check the mil thickness periodically during the application with a mil gauge to assure complete coverage and that the thickness is minimum 30 wet mils.

3. Drying time will take approximately 1–1½ hours but may vary due to the environmental conditions. Color will be salmon when applied, dries to orange. Additional coats of Moisture Barrier can be applied if necessary.
4. Do not bridge over existing expansion or control joints.

Note: Moisture Barrier is not designed for use as a wear surface. The stone veneer should be installed within 24 hours after the second coat of Moisture Barrier has dried.

### Clean up

Clean tools and hands with warm soapy water immediately after use and before material dries. Material is very difficult to remove once dried.

### Limitations

- Apply only to surfaces that are frost free and between 40°F–90°F (4°C–32°C) within 24 hours of application and 72 hours thereafter.
- Do not apply in direct sunlight on hot, windy days, or when rain is expected within 24 hours.
- Do not apply fewer than two coats to ensure uniform and minimum thickness.
- Do not bridge over existing expansion or control joints or static, non–moving cracks greater than ⅛ in. (3 mm).
- Do not bridge over dynamic, moving cracks.
- Do not use where exposed to negative hydrostatic pressure.
- Initial set time is 1–1½ hours at 70°F (21°C)
- Drying time before stone veneer application is 1–1½ hours or up to 12 hours.
- Store in the original unopened container, away from moisture in cool, dry conditions. Product in container should not freeze.

Note: Unprotected membrane should not be directly exposed to sun or inclement weather prior to the installation of the finishing veneer surface materials.

### Coverage

- 1 gal. (3.8 L) pail: Yields approximately 40 ft<sup>2</sup> (3.7 m<sup>2</sup>), coverage when applied 30 mil wet film (two–coat application total yield per 1 gal. unit).

## 6. AVAILABILITY

To locate TechPro® products in your area, please contact:

Phone: 1.651.688.9116  
Website: tccmaterials.com

## 7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

## 8. MAINTENANCE

Not applicable.

## 9. TECHNICAL SERVICES

Technical Assistance:

Information is available by calling TCC Materials® (hours 7:30 AM to 4:00 PM, M–F, CST):

Phone: 1.651.688.9116

Fax: 1.651.688.6164

Web: tccmaterials.com

Technical and Safety Literature:

To acquire technical and safety literature, please visit our website at: tccmaterials.com.

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REV 12/21