

1. PRODUCT NAME

ProSpec[®] Tile Crete[®] PM Floor Mud Underlayment Mix

2. MANUFACTURER

Bluestone Products[™], a TCC Materials[®] company
2025 Centre Pointe Blvd, Suite 300
Mendota Heights, MN 55120 USA

Phone: 1.651.688.9116
Fax: 1.651.688.9164
Internet: tccmaterials.com

3. PRODUCT DESCRIPTION

ProSpec[®] Tile Crete[®] PM Floor Mud Underlayment Mix is a blend of cementitious material, oven-dried sand and special polymers designed to produce a highly-bondable substrate and to optimize consistency between batches. Integral polymer eliminates the need for adding a liquid polymer during mixing when polymer is desired for freeze-thaw durability and enhanced bond. Use as a setting bed/underlayment for ceramic, mosaic, stone, quarry, and paver tile over concrete or wood substrates including countertops. Ideal for forming shower pans and curbs as well as installations requiring a slope to drain.

Interior Applications: Tile Crete[®] PM Floor Mud Underlayment Mix (BOM #110473), Fast-Set Tile Crete[®] PM Floor Mud (BOM #112521)

Exterior Applications: Tile Crete[®] PM Exterior Floor Mud Underlayment Mix (BOM #112323)

Features and Benefits

- Excellent workability
- Integral polymer eliminates use of separate liquid
- Convenient for small or large jobs
- Pre-blended, just add water, mix, and use
- Provides exceptional bonding surface
- Ideal for levelling or creating sloped floors
- Meets ANSI A108.1A
- Can be used up to 4" (10 cm) depth

Uses

- Interior or exterior (depending on mix)
- Over concrete floors
- Forming shower pans
- Creating countertops underlayment (for tile application)
- Over plywood substrates (with a cleavage membrane)
- Under ceramic tile, quarry, pavers, or stone
- Over and under ProSpec[®] Waterproofing & Crack Isolation Membrane

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: 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 ProSpec[®] brand product(s) under normal environmental and working conditions. Because each project is different, neither ProSpec[®] nor TCC Materials[®] can be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

LEED[®] Eligibility¹

- Regional Materials (MR-c4, MR-c5)
- Low-Emitting Materials (IEQ-c4.3)

Packaging

- Gray: 50 lb. (22.7 kg.) bag – BOM #110473 (standard PM mix)
- Gray: 50 lb. (22.7 kg.) bag – BOM #112521 (fast setting PM mix)
- Gray: 50 lb. (22.7 kg.) bag – BOM #112323 (exterior PM mix)

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 per ProSpec[®] technical bulletin on substrate preparation.
- Floors must be structurally sound, free of movement, and dimensionally stable.
- All installations must conform to ANSI A108.01, A108.02, A108.1A & A108.1B.
- Smooth concrete must be scarified to an ICRI Concrete Surface Profile of CSP4 or higher.
- Concrete surface must be brought to a saturated surface dry (SSD) condition with clean potable water. All excess water must be removed.

5. INSTALLATION (Cont.)

All materials should be stored at 40°F–80°F (4°–27°C) 24 hours prior to installation.

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

Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Mixing

1. Use cool, clean, potable water in the range of 50°–80°F (10°–27°C) for mixing. Always use clean tools and mixing containers.
2. Add just enough dry mix to the liquid, approximately 2 qt. (1.89 L) of liquid per 50 lb. (22.7 kg.) bag, to produce a dry-pack consistency. Too much liquid will cause the mortar to have reduced strength.
3. Mix thoroughly until lump free. Mix should resemble wet sand used to form sand creations (wet enough so that it doesn't crumble apart, but dry enough to keep its form consistency).
4. The consistency and workability should be such to allow maximum compaction during tamping.
5. Bucket life is approximately one hour (30 minutes for Fast-Set). Warmer temperatures will reduce the bucket life.

Application

Apply only to surfaces that are frost free and above 40°F (4°C) and below 100°F (38°C) within 24 hours of application and 72 hours thereafter. The thickness should be between ¾" (1.9 cm) and 4" (10 cm) depth for fine or 50/50 blend, and up to 8" (20 cm) for coarse mix, following the recommendations of ANSI 108.1 for the specific intended application. Installation must conform to the current specifications in the TCNA Handbook for Ceramic Tile Installations.

Floors requiring reinforcement:

- When installing mud beds requiring reinforcement, place wire mesh reinforcement according to TCNA method. Placement of wire mesh in the center of the mortar bed is limited to unbonded installations only; reinforcement should not butt against vertical surfaces.

Shower receptors, steam rooms, and wet areas:

- When installing Tile Crete® in a shower receptor, steam room or wet areas requiring waterproof membranes, Tile Crete®

must be a minimum of 1½" (38 mm) thick and tamped and sloped towards drain at ¼" (6 mm) per foot. Wet areas also require a waterproof membrane and flanged drain installed prior to Tile Crete® installation. Refer to TCNA B414, TR418 and SR613. ProSpec® Waterproofing & Crack Isolation Membrane on top of the cured mortar bed greatly reduces mold and mildew growth in the shower floor.

- Consult local building codes, TCNA methods, ordinances, and trade policies for more information on proper installation.

Over wood floors & countertops:

- Install a cleavage membrane (5 mil polyethylene film or waterproofing membrane) before placing Tile Crete®.
- Reinforce with metal lath. Place lath and Tile Crete® over the membrane at a minimum thickness of ¾" (19 mm).

Concrete floors without reinforcement:

- Apply a slurry bond coat.
- Install Tile Crete® at a minimum of ¾" (19 mm) following the recommendations of ANSI A108.1A & B and in accordance with the TCNA installation guidelines.
- Firmly tamp & screed.

Slabs with moisture vapor emission:

- Consult a design professional on best installation practices including using a non-modified thin set or a slurry of Portland cement and water as a bonding agent.

Refer to:

TCNA (Tile Council of North America) Handbook:
Ceramic Tile Installation

American National Standard Specifications:
Installation of Ceramic Tile

Limitations

- Do not use over gypsum underlayment, particle board, hardwood or parquet flooring.
- Do not overwater. Mix to a dry consistency.
- Do not add additional additives to PM Tilecrete
- Maximum depth is 4" (10 cm) per lift

Curing

Standard Tile Crete will obtain a minimum cure in 24–36 hours, depending on the ambient temperatures. Fast-Set Tile Crete will obtain a minimum cure in 2–4 hours, depending on the ambient temperatures. As with concrete, the strength increases significantly with age during the first 28 days.

Coverage

- 50 lb. (22.7 kg) bag: Approximately 8 sq. ft. (0.74 m²) at ¾" (19 mm) thickness

6. AVAILABILITY

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

Phone: 1.651.688.9116
Email: 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 CST):

Phone: 1.651.688.9116

Email: info@tccmaterials.com

Web: tccmaterials.com

Technical and Safety Literature:

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

10. FILING SYSTEM

Division 9

¹ ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

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Data Sheets are subject to change without notice.
For the latest revision, check our website at tccmaterials.com



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