

1. PRODUCT NAME

Tenon[®] Adhesive Base Coat PM

2. MANUFACTURER

TCC Materials[®]
 2025 Centre Pointe Blvd.
 Mendota Heights, MN 55120 USA

Phone: 1.651.688.9116
 Fax: 1.651.688.9164
 Internet: tccmaterials.com

3. PRODUCT DESCRIPTION

Tenon[®] Adhesive Base Coat PM is a dry-mix polymer modified adhesive and base coat requiring only water for mixing.

Features and Benefits

- Pre-blended, polymer modified, just add water, mix, and use
- Excellent workability, smooth, and creamy
- Long open time
- Non-sag, non-slump performance
- Excellent resistance to water penetration and efflorescence
- Pre-blended, polymer modified, just add water, mix, and use
- Good for small repairs or applications, mix only what you need.

Uses

- Adhesive to adhere expanded polystyrene foam board and shapes to concrete, masonry surfaces (cement boards conforming with ASTM C1325 (Type A Exterior), CMU block, glass-mat sheathing, and exterior grade plywood.
- Interior or exterior
- Horizontal and vertical applications

For installation of:

- Base Coat to adhere expanded polystyrene foam shapes, decorative trim cornices and quoins.
- Base Coat to be used to embed fiberglass reinforcing mesh and a waterproof base coat for synthetic stucco coatings.

For installation over:

Wall applications:

- Concrete
- Concrete masonry units (CMU)
- Cement backer unit (CBU)**
- Insulated Concrete Forms (ICFs)
- Exterior wood sheathing (exterior rated with proper lath and moisture barrier)
- Exterior Grade Gypsum Sheathing.

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, M-F, 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 Tenon[®] brand product (s) under normal environmental and working conditions. Because each project is different, neither Tenon[®] nor TCC Materials[®] can be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Note: Test results obtained under controlled laboratory conditions at 72°F (22°C) and 50% relative humidity. Reasonable variations can occur due to atmospheric and job site conditions.

*Failure of Substrate

Typical Values • Adhesive Base Coat PM	
Mix Ratio (Water to Powder)	5.5–6 qt. (5.2–5.67 L) per 50 lb. (22.7 kg)
Latex Modified Portland Cement Mortar ANSI 118.4	
Open time at 70°F/77°F (21°C–25°C)	15 min.
Adjustability time at 70°F–77°F (21°C–25°C)	10–15 min.
Bucket Life @ 70°F (21°C)	3 hours
Sag on Vertical Surfaces	0 inch
Tensile Bond ASTM C1583	
Tensile Bond to Concrete Block	>650 psi (4.48 MPa)
Tensile Bond to Gypsum Sheathing*	>20 psi (0.14 MPa)
Tensile Bond to EPS Board*	>15 psi (0.10 MPa)
Tensile Bond to Glass Mat Sheathing	>35 psi (0.24 MPa)

Applicable Standards:

- ASTM C 91 Standard Specification for Masonry Cement
- ASTM C 109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
- ASTM C 150 Standard Specification for Portland Cement

- ASTM C 270 Standard Specification for Mortar for Unit Masonry
- ASTM C348 Standard Specification for Flexural Strength of Hydraulic Cement Mortars
- ASTM C 595 Standard Specification for Blended Hydraulic Cements
- ASTM C 847 Standard Specification for Metal Lath
- ASTM C 926 Standard Specification for Application of Portland Cement Based Plaster
- ASTM C 1329 Standard Specification for Mortar Cement
- ASTM C 1384 Standard Specification for Admixtures for Masonry Mortars
- ASTM C 1747 Standard Specification for Preblended Dry Mortar Mix for Unit Masonry
- Tile Council of North America Methods Handbook
- ANSI 118.4, 118.11, and 118.15 American National Standard Specifications for Latex–Portland Cement Mortar
- UBC 15–5 Specification for Moisture Absorption
- ACI 530 Building Code Requirements for Masonry Structures
- IMIAC Hot and Cold Weather Construction Guide
- PCA Concrete Masonry Handbook

LEED® Eligibility¹

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

Packaging

- Gray: 50 lb. (22.7 kg.) bag (BOM #114899)

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

Install in accordance with all local building code provisions and applicable ASTM standards.

- Surface must be clean, free from dirt, loose particles, wax, sealers, curing compounds, grease, paint, efflorescence, and any foreign materials that could inhibit adhesion.
- Surfaces must be structurally rigid and sound enough to support the veneer finish including deflection under all live, dead, impact and concentrated loads. Substrate deflection must not exceed L/360 for thin bed ceramic tile / brick installations or L/480 for thin bed stone installations. Also consult local building codes for deflection requirements.
- Applications over stucco: allow stucco to cure for a minimum of 6 days prior to application of Tenon® Adhesive Base Coat PM.
- For best results all materials should be conditioned to 40°F–75°F (4°–24°C) 24 hours prior to installation.

Job Mockups

The manufacturer requires that when its Tenon® 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. Mix with water only, no bonding additives.
2. Add just enough dry mix to the liquid, begin with 5.5 qt. (5.2 L) water per 50 lb. (22.7 kg) bag. Add additional water sparingly up to 6 qt. (5.67 L) total, while mixing 3–5 minutes. Too much water will cause reduced strength.
3. Mix with low speed (150–300 RPM) ½" (13 mm) drill. Mortar should be a smooth, firm, uniform, lump–free consistency, workable to be trowelable, and stiff enough to retain ridges and peaks when troweled on a horizontal or vertical surface. Avoid high–speed mechanical mixing which can entrap air into the mixture, reducing mortar strength.
4. Let mortar slake/rest for 5–10 minutes, Remix again for 2 minutes, and use. Do not add additional powder or liquid after slaking, as this may cause shrinkage and poor bonding. Stir occasionally to keep fluffy. Maintain water and mixing time consistency among batches.
5. Bucket life is approximately 3 hours at normal temperatures of 70°F (21°C). Warmer temperatures will reduce the bucket life. Do not mix more product than can be placed in 3 hours. Mortar shall be used and placed in final position within 3–4 hours after initial mixing or discarded at that time.

Application

Apply only to surfaces that are frost free and between 50°F–90°F (10°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.

For use as an adhesive with EIFS/EPS to EPS:

- With a notched trowel, apply base coat to the entire surface of the insulation board using a stainless steel trowel. Recommended notched trowels, ¾" x ¾" x ¾" Square Notched (10mm x 10mm x 10 mm) or ½" x ½" x ½" Square Notched (13mm x 13mm x 13 mm).

For use as adhesive to EPS drainage board:

- With a notched trowel, apply base coat to the entire surface of the insulation board using a stainless steel trowel. Recommended notched trowels, ½" x ½" x 2" (13mm x 13mm x 50mm). If using the "ribbon method", ribbons should be parallel to the drainage groove in the EPS foam board
- Set board in place using direct pressure to ensure full contact to substrate. Do not slide board into place or allow the applied base coat to dry or skin over.
- Allow EPS foam application to dry/cure 10–12 hrs before rasping or application of base coat and mesh.

For use as base coat for reinforcing mesh embedment:

- Trowel base coat onto surface of the insulation board, IFCs, or approved substrate. Apply enough base coat to allow for full embedment or reinforcing mesh. Embed mesh so no visible color of the mesh can be seen and smooth. *use industry standard practices for embedment of mesh at edges and around corners.
- Allow mesh reinforced base coat to dry/cure 8–10 hrs before application of synthetic finishes.

Limitations

- Install in accordance with local building codes and applicable ASTM standards.
- Mix with clean water only, no bonding additives, do not overmix or over-water. Do not retemper after initial mixing.
- Do not cover expansion joints with mortar.
- Do not apply to frozen surfaces and protect installation from freezing for 72 hours.
- Do not apply when rain is forecasted within 24 hours.
- Do not use on damp surfaces, below grade applications or to surfaces subject to water immersion.

Cleaning

Use clean potable water to clean all tools immediately after use. Dried material must be mechanically removed. Use a waste water hardener (e.g. Conglez™ or similar product) for cementitious waste disposal.

Coverage

- 50 lb. (22.7 kg) bag: Approximately 40–85 sq. ft. (3.7–7.9 m²) of adhered veneer.

Approximate Coverage per 50 lb. (22.7 kg) bag	
Mesh Embedment <small>*Coverage rates vary depending on porosity of substrates and applications techniques</small>	50–85 sq. ft. (4.6–7.9 m ²)
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ " Square Notched Trowel (10 x 10 x 10 mm)	80–85 sq. ft. (7.4–7.9 m ²)
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ " Square Notched Trowel (13 x 13 x 13 mm)	50–55 sq. ft. (4.6–5.1 m ²)
Ribbon or Dab	40–50 sq. ft. (3.7–4.6 m ²)

6. AVAILABILITY

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

Phone: 1.651.688.9116
Email: info@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
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 4

¹ Tenon® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials) LEED® is a registered trademark of U.S. Green Building Council.



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