

1. PRODUCT NAME

Tenon® Conproco® M3P

2. MANUFACTURER

TCC Materials®
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA
Phone: 651.688.9116
Web: tccmaterials.com

3. PRODUCT DESCRIPTION

Tenon® Conproco® M3P is a brush or roller applied, mineral silicate coating.

Features and Benefits

- Reacts with calcium hydroxide at surface, mitigating carbonation to depth of penetration
- Siloxane component provides long term protection from water and water borne contaminants
- Non-film forming; will not peel, blister or flake
- Breathable - 97% vapor permeable
- Unaffected by UV
- Fire resistant
- Colorfast - fade resistant pigments
- Environmentally friendly - Water based, low odor, low VOC
- Can be blended for semi-transparent finishes, stir and apply
- 34 standard colors, plus Matrix colors and custom matching

When/Where to Use

- Long-term protection & enhanced aesthetics of concrete, masonry & stone
- Opaque & semi transparent finishes are obtainable

4. TECHNICAL DATA

Typical Values • Conproco M3P	
Physical State & Appearance	Thick liquid emulsion, natural
Base	Aqueous
pH	11.2
% Solids by Weight	31%
Viscosity (ASTM D562)	65 - 69 KU - paint paddle
Density of Liquid Coatings (ASTM D1475)	1.286 g/mL
Drying Time	1 hour @ 65°F - dry to touch
Fungus Resistance (Fed. Spec. TT-P-19D)	No growth
Accelerated Weathering - QUV (ASTM G154)	2,000 hours - UV-B cycled with condensation - no effect
Hiding power of coating @ 5 mils. (ASTM D2805)	Excellent
Water Penetration & Leakage (ASTM E514)	100% reduction

Typical Values • Conproco M3P cont.

Water Vapor Transmission (ASTM D6490)	90% WVT
Water Vapor Transmission - Procedure B (ASTM E96)	75 perms
Heat Stability (ASTM C932)	Pass - 2 weeks @ 120°F
Mud Cracking @ 10 mills.	None

Available Sizes

- 5 gallon pail (BOM #115350)

Coverage

- Coverage rates vary considerably from substrate to substrate for all potassium silicate coatings due to surface texture and absorption rates of the masonry being coated. Apply a mockup to determine coverage rates for specific project.
- M3P – 150–300 ft²/gal.

5. INSTALLATION

Preparation

Read all directions before starting work. Proper surface preparation is crucial to achieving a successful application.

1. Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
2. Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
3. Surface must be dry and frost free.
4. New concrete or repairs must cure a minimum of 7 days prior to application.
5. Substrate must be absorptive for proper application.

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

Priming

- M3P is a self-priming two coat system. Mockups will determine if chalking can occur as a result of an unusually high absorption rate of the substrate.

Mixing

1. Stir or mechanically mix using a low speed drill (400-600 rpm) until homogenous. Product may settle during storage or shipping.
2. Box mix pails from different batches when an entire surface is visible.
3. For opaque finishes, no dilution is required.
4. For transparent finishes, mix with M3P-X in ratios of 1:1, 1:2, 1:3, 1:4, etc. The more M3P-X added, the greater transparency in the finish.
5. Higher dilution rates require more frequent stirring, be sure to mix/stir often to maintain color consistency.

Application

1. Two coats of M3P at selected dilution is required to achieve best results.
2. Apply a test sample to determine suitability. Ensure by visual inspection that M3P has penetrated the substrate. Surface must be absorptive for M3P application to be successful.
3. Ambient temperature must be above 45°F for the entire curing period.
4. For roller applications use a $\frac{3}{8}$ – $\frac{1}{2}$ inch synthetic nap roller depending on texture of substrate.
5. Brush or back roll into substrate for pinhole free, uniform coverage.
6. Work to pre-determined break points in the structure. DO NOT CUT IN!
7. Maintain a wet edge while working to each architectural break point.
8. A second application of M3P can be applied after the first is dry-to-touch.

Curing

Protect from moisture for 24 hours.

Clean Up

Clean tools and equipment with water. Clean adjacent areas with water before material dries.

Limitations

1. Do not apply if temperature of substrate is below 45°F.
2. Do not apply if precipitation is forecast within 24 hours of application.
3. Do not apply in strong winds.
4. Do not apply to frozen surfaces.
5. Do not apply if temperature of substrate is below 45°F.
6. Do not apply if ambient temperature is below 45°F. Ambient temperature must stay above 45°F during curing period.
7. Do not ingest.
8. Avoid contact with skin & eyes.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional

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, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

6. AVAILABILITY

To locate Tenon products in your area, please contact:

Phone: 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.

Shelf Life	18 months when properly stored
Storage Conditions	Protect from freezing. Transport and store in cool, clean, dry conditions in unopened containers. High temperature or high humidity will reduce shelf life.
Color	See Designer Series Color Card
KEEP PRODUCT IN CONTAINER FROM FREEZING	
WARNING: INJURIOUS TO EYES	
KEEP OUT OF REACH OF CHILDREN	



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