

1. PRODUCT NAME

Tenon® Conproco® Conpro Shield MX

2. MANUFACTURER

TCC Materials®
 2025 Centre Pointe Blvd.
 Mendota Heights, MN 55120 USA
 Phone: 1.651.688.9116
 Web: tccmaterials.com

3. PRODUCT DESCRIPTION

Tenon® Conproco® Conpro Shield MX is a spray, roller or brush applied penetrating aqueous silane/siloxane water repellent.

Features and Benefits

- Passes ASTM E514
- 100% no leakage
- 94% reduction in water absorption
- Long term protection - Advanced silicone technology
- Mitigates carbonation
- Effective chloride ion screen
- UV stable
- Unaffected by microbiological activity
- Breathable - Water vapor permeable
- Will not darken or alter light reflection of substrate when properly applied to a dry and untreated surface.
- Cold weather application - Apply to 40°F or above. With 1-hour cure will tolerate sub-freezing temperatures with no affect. Substrate should be frost free
- Repels water from penetrating substrate. Most damage to concrete, masonry and stone is due to water entry.
- Water based technology, low odor, easy handling and clean up.
- VOC compliant - Meets all current VOC emission standards for waterproofing, concrete/masonry sealer.

When/Where to Use

- Vertical & horizontal concrete
- Concrete block
- Concrete pavers
- Natural stone
- Stucco
- Brick

4. TECHNICAL DATA

Typical Values • Conproco Conpro Shield MX	
Physical State & Appearance	Milky white liquid
pH	9
Odor	Slight
Solids by Weight	11%
Solvent System	Aqueous
Volatile Organic Content - VOC (ASTM D3960)	<50 g/l
Active Ingredients	Siloxane based
Density of Liquid Coatings (ASTM D1475)	8.4 lbs. / gal.

Typical Values • Conproco Conpro Shield MX cont.

Accelerated Weathering - QUV (ASTM G154)	2,000 hours UV-B cycled with condensation - no effect
Accelerated Weathering - Carbon-arc (ASTM G152)	Pass - no effect
Water Penetration & Leakage (ASTM E514)	100% reduction, no staining or leakage
Water Vapor Transmission (ASTM E96)	100%
Resistance to Salt Spray (ASTM B117)	Pass - no effect
Moisture Absorption (ASTM C140)	Reduction compared to control 94%
NCHRP 244 Series II Reduction in Chloride Ion Intrusion	82%

Available Sizes

- 1 gallon container (BOM #115214)
- 5 gallon container (BOM #115213)
- 55 gallon container (BOM #115386)

Coverage

- Coverage will vary depending upon porosity of substrate.
- Concrete – 125 - 175 ft.²/gal.
- Concrete block – 40 - 150 ft.²/gal.
- Brick – 100 - 175 ft.²/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 bond.
2. Substrate must be clean and free of loose debris, oils, paints, previously applied water repellents or any substance that can interfere with penetration.
3. Substrate must be dry and frost free. Moisture in the substrate will reduce penetration.
4. Repoint loose deteriorating mortar; fill all voids and cracks in mortar.
5. Inspect flashing around all openings, caulking, expansion joints and roof components to determine condition and for evidence of water entry. Material will not prevent water entry through cracks or voids in substrate or other building components.
6. No priming is necessary.

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

Mixing

- Stir until homogenous

Application

1. Always apply to a test area to ensure Conpro Shield MX will not affect the appearance of the surface due to reaction with previously applied materials or by drawing surface contaminants into the substrate.
2. For best results apply with a low pressure sprayer using a fan tip.
3. For vertical applications begin at the bottom of the wall and work up generating a 4-6 inch rundown.
4. Work to natural break points in the structure.
5. Always keep a wet edge.
6. For horizontal applications begin at one edge and work backwards towards the opposite edge.
7. Apply enough material to saturate the surface, but do not allow material to pond. Brush out ponded material before surrounding area dries.
8. Single coat coverage is suitable for most applications.
9. If considering multiple applications of Shield MX, product should be applied wet on wet.

Curing

Protect from moisture and traffic for 8 hours. Material is fully cured in 14 days.

Clean Up

- Clean tools, equipment and adjacent areas with water immediately after application.
- Clean glass, windows, metal, vinyl, and aluminum with mild detergent and water within 72 hours before material can cure.
- Cured material can be removed mechanically.

Limitations

- Ensure adequate air movement to dissipate fumes during application and curing.
- Use safety glasses and gloves during application.
- Do not dilute.
- Do not spray in high winds.
- Always apply a sample to determine suitability to substrate.
- Does not prevent water entry through cracks, penetrations or open joints.
- Not applicable for below-grade waterproofing.
- Not recommended for use on bluestone.
- Do not ingest.
- Avoid breathing mist.
- 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.

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 in unopened containers.
Storage Conditions	Transport and store in cool, clean, dry conditions in unopened containers. DO NOT FREEZE. This will destroy the Shield MX.
Color	Milky White
KEEP PRODUCT IN CONTAINER FROM FREEZING	
WARNING: INJURIOUS TO EYES	
KEEP OUT OF REACH OF CHILDREN	



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