

## 1. PRODUCT NAME

Tenon<sup>®</sup> Salt Barrier ES

## 2. MANUFACTURER

TCC Materials<sup>®</sup>

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Mendota Heights, MN 55120 USA

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## 3. PRODUCT DESCRIPTION

Tenon<sup>®</sup> Salt Barrier ES (Exempt Solvent) is designed to protect & extend the life of concrete, masonry, pavers, retaining walls and other cementitious surfaces by protecting from the damaging effects of salt and de-icing chemicals without affecting the finished look. Salt Barrier ES provides a natural finish that maintains the original appearance of driveways, patios, garage floors, block walls, and other concrete or masonry surface. This clear, solvent-based formula penetrates and reacts chemically within the capillaries of the concrete to protect against moisture penetration, spalling, freeze-thaw damage, deicing salts, efflorescence, and chemical erosion, protects surfaces from most chemicals, dirt, acids, alkali, and airborne pollutants while making these surfaces easier to clean. Salt Barrier ES is used for above-grade exterior applications that are not subject to hydrostatic pressure.

## Features and Benefits

- Non-gloss finish that won't change appearance of pavers
- Natural-looking invisible protection
- Non-staining, non-yellowing
- Ready to use (no diluting)
- Solvent-based formula provides breathable, deep-penetrating protection
- Repels water, with early water repellency
- Once cured, pronounced water beading effect
- Dries tack free
- High alkali resistance
- Easy to apply with sprayer and roller
- Low volatility
- Protects from effects of rain and other water penetration, chemicals, salt, freeze-thaw, and smog
- Meets Federal EPA's VOC requirements
- VOC content makes it compliant in OTC & LADCO-regulated states and Canada.

## Uses

- Above-grade exterior applications
- Vertical or horizontal applications
- Fully-cured new or existing applications
- Concrete, masonry, pavers, brick, retaining walls, stucco, block, stone, and other cementitious materials
- Excellent for driveways and garages prone to salt damage from vehicular traffic

## 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<sup>®</sup> 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.

## 4. TECHNICAL DATA

Typical Results of Tenon <sup>®</sup> Salt Barrier ES	
Composition and Materials	An oligomeric, organosiloxane water repellent. Tenon <sup>®</sup> products are manufactured with only the finest quality raw materials available and close quality-control is practiced.
Density	7.37 lbs.
Flash Point	<100°F (> 37°C)
Typical Drying Time @ 70°F	1-2 hour (touch) 2-4 hours (traffic)
VOC Content	< 350 g/l
OTC/LADCO/CARB Category	Waterproofing Sealers Maximum VOC 350 g/l
A.I.M. Category	Waterproofing Sealers and Treatments Maximum VOC 600 g/l
Applicable Standards	ASTM C-666 Resistance of Concrete to Rapid Freezing and Thawing ASTM C672 Scaling Resistance NCHRP 244 (water absorption, % water vapor transmission and % reduction in chloride intrusion)

These dry times are dependent on normal drying conditions. Cool temperatures or high humidity will slow the drying time.

## Packaging

- 1 gal. bottle (3.78 L) – Product #113370
- 5 gal. pail (18.93 L) – Product #113360
- 55 gal. drum (208 L) – Product #113358

## Shelf Life

For best use, the recommended shelf life is 12 months. If shelf life is beyond 12 months, please contact your distributor. Store in the original labeled container, away from moisture, out of direct sunlight. **DO NOT STORE NEAR HEAT OR OPEN FLAME.** Keep containers tightly sealed when not in use.

## 5. INSTALLATION

### Preparation

- Read all directions before starting work. Read and understand SDS pages for safety precautions prior to use.
- Remove all loose or unsound materials prior to application. Thoroughly clean surface of dirt, dust, oil, grease or other contaminants before using.
- Apply only to dry surfaces for optimal performance. Do not apply when rain is expected within 4–6 hours of application.
- If rain has preceded the application, the surface should be allowed to dry for at least 24 hours.
- Check compatibility with the substrate manufacturer prior to placement.
- Keep containers tightly sealed when not in use, and use only in well-ventilated areas.

**Existing Concrete:** Repair any cracks or damaged areas. Mechanical abrasion of smooth-finished surfaces may be needed for maximum penetration.

**New Concrete:** Water-cure new concrete or use a water-based dissipating curing compound. All fresh concrete should be properly cured (28 days).

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 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

- Mixture may be gently stirred to blend prior to use. Do not entrain air.
- Do not dilute.

## Application

1. **Be sure the surface is dry to allow for good penetration.** If applied to damp surfaces, Salt Barrier ES may react with the water on the surface which may prevent it from achieving a natural look.
2. Apply only when air and substrate temperatures are above 40°F (4°C) and the Salt Barrier ES is above 50°F (10°C). For best results, surfaces must be clean and dry.
3. Apply with low-pressure sprayer equipped with PVC, viton, or other compatible fittings and hoses as solvents can damage rubber.
4. Apply evenly and sufficiently to wet the substrate completely. If applied on vertical surfaces, start at the top and maintain a minimum 2 in. (51 mm) run-down.
5. It is important to roll the surface to evenly spread the sealer. Surface should be saturated uniformly until the sealer dries.
6. Roll out any pools that accumulate on the surface after 5 minutes.
7. If any dry areas form before 5 minutes, apply an additional light coat to those dry areas.

Note: Salt Barrier ES may darken the appearance of concrete, especially if it is applied too heavily or to damp or wet surfaces. A small mock-up in an inconspicuous area is often done to test compatibility with the substrate prior to full application. When applying to existing areas surfaces must be clean and dry.

## Cleaning

Use mineral spirits or solvent-based cleaners such as denatured alcohol on tools and equipment. For sprayers, pump the solvent through the spray equipment to remove residue and prevent clogs. For skin contact, wash thoroughly with soap and warm water.

## Limitations

- Sprayers must be equipped with PVC, viton, or other compatible fittings and hoses as rubber or other materials will disintegrate from the solvent.
- Some fumes may be present during application. Use best practices when applying on interiors for proper ventilation. Siloxane is non-toxic in its cured state.
- Dispose of contents/container in accordance with all local and state regulations.
- Keep out of reach of children.

## Coverage

Approximate Coverage @ 70°F (21°C)	Sq. Ft./Gal.	M <sup>2</sup> /L
Pavers & smooth concrete	150–300	3.7–7.3
Decorative & broomed concrete	100–200	2.5–4.9
Natural stone	100–200	2.5–4.9
Concrete block	40–100	1.0–2.5

Note: The recommended coverage rate for most concrete substrates is 125 sq. ft. per gal. Coverage may vary due to porosity, wind, temperatures, and condition of surfaces.

## 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

Reapplication is recommended every 3–5 years depending on application and usage. Do not apply a penetrating sealer over Paver Seal.

## 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 7 or 9



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