

1. PRODUCT NAME

Tenon[®] Cure & Seal ES
(solvent based VOC compliant curing & sealing compound)

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[®] Cure & Seal ES is a clear, non-yellowing, fast drying acrylic compound. No Fillers, oils, waxes, or saponifiable resins are contained in the mixture. It is used for curing and sealing of freshly-placed and /or existing concrete, terrazzo, brick, stone, architectural concrete, and other cementitious materials.

Tenon[®] Cure & Seal ES forms a membrane film on new concrete to seal and retain hydrations water, providing maximum hardness of the substrate, resistance to abrasion, and resistance to damage caused by salt, oil, grease, mild acids, alkali, and stains from soot, smog, fumes, and gases. Tenon[®] Cure & Seal ES will also benefit existing concrete by penetrating into the slab, binding together the small dusting particles, while filling the voids to produce a non-porous, dust-free, brighter surface. When used on terrazzo, brick, stone, and architectural concrete, it brings out the highlights, enriches, and enhances the natural colors found in the material.

Features and Benefits

- Cures in 1–2 hours
- Protects and seals surfaces from dirt and damage
- Enhances appearance
- Ready to use (no diluting)
- Goes on clear, dries clear
- Non-staining, colorless, non-yellowing
- Meets Federal EPA's VOC requirements
- VOC content makes it compliant in OTC & LADCO-regulated states and Canada
- Easy to apply with sprayer and roller
- Protects from effects of rain and other water penetration, chemicals, salt, freeze-thaw, and smog
- Compatible with most carpet and tile adhesives

Uses

- Above-grade exterior applications
- Interior applications when properly ventilated

- Vertical or horizontal applications
- All concrete applications
- Fully cured, new or existing concrete applications
- Burnished block, natural and synthetic stone, Terrazzo, brick, pavers, and other cementitious materials
- Commercial and Residential applications.

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.

4. TECHNICAL DATA

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

Typical Results of Tenon [®] Cure & Seal ES	
Composition and Materials	A clear acrylic copolymer blended with exempt solvents. No fillers are used and there are no oils, waxes, or saponifiable resins. Tenon [®] products are manufactured with only the finest quality raw materials available and close quality control is practiced.
Moisture Efficiency	Meets ASTM C-1315 when applied at 300 sq. ft. per gal. (Max. allowed 0.40kg/m ²)
Density	8.5 lbs/gal
Percent Solids	25%
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 Category	Concrete Curing Compound Maximum VOC 350 g/L

Packaging

- 1 gal. bottle (3.78 L) – BOM #113310
- 5 gal. pail (18.93 L) – BOM #113320

Typical Results of Tenon® Cure & Seal ES	
A.I.M. Category	Curing and Sealing Compound Maximum VOC 700 g/L
Applicable Standards	ASTM C-1315, Type 1 Class A ASTM C-309 Type 1 Class A, B Fed. TT-C-800A, Type 1 Class 1 AASHTO Des. M-148, Type 1 Clear

- 55 gal. drum (208 L) – BOM #113308

Shelf Life

For best use, the recommended shelf life is 18 months. If shelf life is beyond 18 months, please contact your distributor. Store in 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, paint, curing compounds, or other contaminants before using.
- Use only in well-ventilated areas.
- 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.
- All pressure washed substrates must dry for a minimum of 7 days prior to application.
- Allow 6–12 hours cure time of all caulking and sealant materials before application of sealer.

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

- Apply only when air and substrate temperatures are above 40°F (4°C) and Tenon® Cure & Seal ES is above 50°F (10°C). For best results, apply uniformly at the specific rate of coverage.
- Apply with low-pressure sprayer and back-roll or apply with roller. When using a sprayer, it should be equipped with PVC, viton, or other compatible fittings and hoses as solvents can damage rubber.
- **New Concrete (Curing):**
Finish troweling new concrete. Allow surface water to dissipate. Use low-pressure or power sprayer to apply uniformly at the specified rate of coverage. Avoid heavy accumulations.
- **Existing Concrete (Sealing):**
Remove all loose or unsound materials prior to application. Thoroughly clean the surface of dirt, dust, oil, grease, or other surface contaminants before using. Apply only to a dry surface for optimal performance. Using a short-nap roller or low-pressure sprayer to apply product evenly. Avoid heavy accumulation. A second coat may be applied on very porous surfaces with rapid absorption. Allow the product to become tack-free between application coats.

Note: Tenon® Cure & Seal ES will not darken the appearance of concrete or harm most forms of glass. 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 xylene, 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

- Apply when surface and air temperatures are above 40°F (4.4°C)
- Sprayers must be equipped with PVC, viton, hoses, or other compatible fittings 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. Tenon® Cure & Seal ES is non-toxic in its cured state.
- Concrete mixes containing calcium chloride will remain dark longer when sealed. Some extenders and additives, such as fly ash for example, can create inconsistent porosity and coverage ratios will need to be adjusted to compensate for the variations.
- Not for use on asphalt or surfaces that are subject to immersion or constant liquid contact.
- Not for use where spillage of solvents, fuels, or brake, transmission, hydraulic fluids are expected.
- Dispose of contents/container in accordance with all local and state regulations.
- Keep out of reach of children.

Coverage

The recommended coverage rate for most concrete substrates is 300 sq. ft. per gal. Coverage may vary due to porosity, wind, temperatures, and condition of surfaces. For more detailed coverage rates, refer to the chart below.

Note: Coverage is per coating and 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

Website: 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

Approximate Coverage @ 70°F (21°C)	Sq. Ft./Gal.	M ² /L
Curing	300–500	7.3–12.3
Dustproof/Seal	300–500	7.3–12.3
Second Coat (if necessary)	400–800	9.8–19.6
Renovation Dustproof/Seal	300–400	7.3–9.8

hereunder.

8. MAINTENANCE

Minimal maintenance is required other than normal sweeping, dusting, or mopping. If spillage removes the coating or if traffic wear patterns occur, Tenon® Cure & Seal ES can be reapplied to the affected area.

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

Fax: 1.651.688.6164

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



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