

1. PRODUCT NAME

Tenon™ Concrete Surface Retarder

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA

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3. PRODUCT DESCRIPTION

Tenon™ Concrete Surface Retarder is a water-based, “Formula S” mixture that is applied to freshly placed concrete applications to chemically delay the setting of the mortar at the surface of the concrete. This allows the top layer of cement paste to be flushed away creating an exposed aggregate decorative finish without damaging the integrity of the concrete slab. A stream of water or scrubbing with a stiff brush is used to create the decorative texture. Surface Retarder can also be used on existing concrete to roughen or open the surface to improve the bonding for coatings or toppings.

Features and Benefits

- Horizontal only
- Architectural slabs
- Ramps and curbs
- Patios and pool decks
- Where decorative surfaces are desired
- For enhanced slip-resistance

Uses

- Safe, non-toxic, and biodegradable
- Easy application
- Works quickly (average set time to create exposed aggregate is 3–4 hours)
- Ready to use, no diluting
- Retards set-up to depth of up to ¼” (6.3 mm)
- Economical, reduces the cost of preparing surfaces for other coatings
- No bush hammering or sandblasting needed
- Clear, transparent liquid
- Meets Federal EPA VOC requirements

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.

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

Typical Results of Tenon™ Concrete Surface Retarder	
Composition and Materials	A water-based mixture. No hazardous materials are used in this product. Tenon™ products are manufactured with only the finest quality raw materials available and close quality-control is practiced.
Color	Pale yellow
Flash Point	Noncombustible
Working Time	3–4 hours on average
VOC Content	None
A.I.M. Category	Concrete Surface Retarders Maximum VOC 780 g/l

Packaging

- 1 gal. bottle (3.78 L) – Product #121117
- 5 gal. pail (18.93 L) – Product #121118

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, tightly closed container, out of direct sunlight. Protect from freezing, store at 50°F–90°F (10°C–32°C).

5. INSTALLATION

Preparation

Pour concrete flatwork and mechanically tool as needed. If desired, the surface can also be enhanced by topping the finished concrete with uniformly sized pea gravel or desired aggregate and gently tamping down with a float into, but not below, the surface. If any concrete admixtures that affect the setting time have been used, a sample section should be done to test for compatibility prior to use of Concrete Surface Retarder.

Protect all areas not set for treatment from splash, residue, and wind–drift.

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

Mixing

Mixture should be gently stirred to blend prior to use. Do not dilute.

Application

1. Best application temperatures are between 40°F–90°F (4°C–32°C) and when rain is not expected within 3–4 hours.
2. Take care to spray evenly over surface to create a uniform final appearance.
3. Spray Concrete Surface Retarder evenly at a rate of 150 sq. ft. per gal. while some surface moisture remains.

Curing

Same Day Application:

- Same day application is recommended when cool weather conditions are present.
- Leave set, approximately 3–4 hours at 70°F (21°C), until surface can be washed clean without creating surface imperfections or removing the aggregate.

Overnight Application:

- Overnight application is recommended when warm, dry weather conditions are present.
- Cover the entire surface with polyethylene plastic sheeting, making certain the plastic is smooth and in full contact with the wet surface.
- Allow to set overnight, then wash the surface immediately in the morning.
- Scrub any remaining cement residue using a soft bristle brush immediately after washing and rinse with water.

After using this product, Tenon™ recommends one of these curing compounds on the exposed aggregate: use Siloxane Sealer for a natural look without gloss; use Super Clear Coat Matte for a “wet–look” without gloss; use Super Clear Coat or Super Diamond Glaze for a “wet–look” with gloss.

NOTE: It is recommended a sample test should be completed prior to application to insure proper method and technique.

Cleaning

If a small amount of cement or sand residue remains on the surface, immediately scrub with a soft bristle brush and rinse thoroughly with water. Use warm, soapy water to clean up sprayer and tools.

Limitations

- Wash hands after using.
- Do not dilute with water or solvents.
- 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 ² /L
New Concrete	150	3.68

Note: Coverage may vary due to porosity, wind, temperatures, and condition of surfaces.

6. AVAILABILITY

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

Email: info@tccmaterials.com
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 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 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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