



# TENON TROWEL Ice

## 1. PRODUCT NAME

Tenon® Trowel Ice

## 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® Trowel Ice is a V.O.C. compliant finishing aid that enhances physical concrete surface performance, while aiding in faster and easier surface finishing. Tenon® Trowel Ice is reactive colloidal silicate densifier that lubricates freshly placed concrete, prolonging workability in adverse conditions, such as high wind, low humidity, or high ambient temperatures.

### Features and Benefits

- Lubricates freshly placed concrete for more efficient surface finishing.
- Increases workability of the concrete without adjusting the surface water/cement ratio.
- Minimizes wear on surface finishing equipment.
- Increases productivity and ease of finishing concrete mixes that utilize fume silica, Type 1L Cement, or air-entrained admixtures.
- Water based, no odor, transparent, low VOC.
- Reduces potential for alkali silica reaction (ASR).
- Improves surface hardness and abrasion resistance.
- Minimizes cracking, crazing, and surface scaling.
- Can be used to aid application of Dry Shake Hardeners.

### 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

- Complaint with Federal US EPA A.I.M. VOC regulations including OTC, LADCO, SCAQMD, & CARB.

Composition and Materials	Formulated with a colloidal silica based mineral in a water dispersion. Tenon® products are manufactured only with the finest quality raw materials available and close quality-control is practiced.
Color	Milky/Off-White (dries transparent)
Freezing Point	32° F (0° C)
Material pH	8-9
VOC	<50 g/L
A.I.M. Category	Not Regulated

### Packaging

Tenon® Trowel Ice is available in a concentrate and RTU (ready-to-use) packaging. The concentrate version is mixed with water at a 4;1 mix ratio.

- 1 gal. pail RTU (3.78 L) – Product #114864
- 1 gal. pail Concentrate (3.78 L) – Product #114865
- 5 gal. pail RTU (18.93 L) – Product #114866
- 5 gal. pail Concentrate (18.93 L) – Product #114867

### Shelf Life

For best use, the recommended shelf life is 24 months. If shelf life is beyond 24 months, please contact your distributor. Store in the original labeled container, away from moisture, out of direct sunlight. PROTECT FROM FREEZING, best when stored 40° - 90°F (4° - 32° C). 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.
- Tenon® TROWEL Ice is designed for use during the final concrete finishing stage. It should be applied to fresh concrete before screeding, floating, or troweling have begun.
- RTU version, thoroughly stir or shake to ensure no separation or settling visualized.
- Concentrate version, dilute one (1) part Tenon® TROWEL Ice to FOUR (4) parts potable water.
- Thoroughly stir or shake again prior to application.
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Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

### Application

Apply with low pressure spray that produces a flow rate of 0.5 gallons per minute. Tenon® TROWEL Ice diluted solution or RTU, should be applied evenly across surfaces that are ready for immediate screeding, floating, troweling or other surface finishing. Do not allow pooling or puddling. Tenon® TROWEL Ice may be applied to areas previously treated and have started to prematurely dry. DO NOT exceed 300 sq.ft/gal when applying multiple applications. Tenon® TROWEL Ice may also be used before and after dry shake hardener applications when limited bleed water is available to wet out hardeners.

### Cleaning

Sprayers and other equipment may be cleaned with soap and water, before material dries.

### Limitations

**FOR PROFESSIONAL USE ONLY! KEEP FROM FREEZING.** Tenon® TROWEL Ice does not replace curing procedures. Do not allow Tenon® TROWEL Ice to pond or puddle on the surface. Over application can cause concrete hazing/clouding to occur on the surface. DO NOT exceed 300 sq.ft/gal when applying multiple applications. Make sure to thoroughly work in application of Tenon® TROWEL Ice before additional applications. Tenon® TROWEL Ice is not a curing compound and does not replace recommended curing practices.

### Coverage Rate

Coverage rates are a starting point to understanding needed application rate. Coverage rates are based on the mixed RTU (ready-to-use) gallon of Tenon® TROWEL Ice.

Approximate Coverage @ 70°F (21°C)	Sq. Ft. / gal	Sq. M. / L
Finishing Aid	600–1,000	14.4–24
Concrete Densifier	300–500	7.9–12.6

## 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. 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.

## 9. FILING SYSTEM

Division 3



TCC Materials

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tccmaterials.com