

PRODUCT NAME

Tenon® Trowel Ice

MANUFACTURER

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

PRODUCT DESCRIPTION

Tenon® Trowel Ice is a VOC-compliant finishing aid that enhances physical concrete surface performance, while aiding in faster and easier surface finishing. Tenon Trowel Ice is a reactive, colloidal silicate densifier that lubricates freshly placed concrete.

Features & 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, and 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

Uses

- Fresh concrete finishing in harsh conditions (heat, wind, or low humidity)
- Concrete mixes with fume silica, Type 1L cement, or air-entrained admixtures
- Improving surface durability and reducing surface defects
- Surface hardener and densifier
- Application with dry shake hardeners for floors

Available Sizes

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. (3.78 L) bottle RTU (**BOM #114864**)
- 1 gal. (3.78 L) bottle Concentrate (**BOM #114865**)
- 5 gal. (18.93 L) pail RTU (**BOM #114866**)
- 5 gal. (18.93 L) pail Concentrate (**BOM #114867**)
- 55 gal. (208.19 L) drum RTU (**BOM # 115195**)
- 55 gal. (208.19 L) drum Concentrate (**BOM #116767**)
- 275 gal. (1040.99 L) tote RTU (**BOM # 115196**)

TECHNICAL DATA

Typical Values	
Composition and Materials	Formulated with a colloidal silica-based mineral in a water dispersion.
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

Coverage

Approximate Coverage @ 70°F (21°C)	Sq. Ft./Gal.	Sq. M./L
Finishing Aid	600-1000	14.4-24
Concrete Densifier	300-500	7.9-12.6

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

Applicable Standards & Testing

- Compliant with Federal US EPA A.I.M. VOC regulations including OTC, LADCO, SCAQMD, & CARB. 001 ASTM 002

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 troweling has 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

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

Application

1. Apply with low pressure spray that produces a flow rate of 0.5 gallons per minute.
2. Tenon Trowel Ice diluted solution or RTU should be applied evenly across surfaces that are ready for immediate troweling, or other surface finishing.
3. Do not allow pooling or puddling.
4. Tenon Trowel Ice may be applied to areas previously treated and have started to prematurely dry.
5. DO NOT exceed 300 sq. ft./gal. when applying for multiple applications.

6. Tenon Trowel Ice may also be used before and after dry-shake hardener applications when limited bleed water is available to wet out hardeners.

Clean Up

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

LIMITATIONS & PRECAUTIONS

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.
- Do not allow Tenon Trowel Ice to dry 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 toughly 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.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

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.

STORAGE & HANDLING

Shelf Life

For best use, the recommended shelf life is 24 months. If shelf life is beyond 24 months, please contact your distributor.

Storage Conditions

Store in the original labeled container, away from moisture, and out of direct sunlight. PROTECT FROM FREEZING, best

when stored 40°F - 90°F (4°C - 32°C). Keep containers tightly sealed when not in use.

ADMINISTRATIVE INFORMATION

Product Availability & Technical Services

Business hours are 7:30 AM to 4:00 PM CST. To locate Tenon products in your area or contact Technical Services:

Phone: 1.651.688.9116

Email: info@tccmaterials.com

To acquire technical and safety literature, please visit our website at:

Web: tccmaterials.com

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.

Filing System

Division 3