

1. PRODUCT NAME

Tenon[®] Instant Anchoring Cement

2. MANUFACTURER

TCC Materials[®]
 2025 Centre Pointe Blvd.
 Mendota Heights, MN 55120 USA

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3. PRODUCT DESCRIPTION

Tenon[®] Instant Anchoring Cement is a quick-setting anchoring cement compound used for setting poles, railings, bolts, and fixtures in concrete or masonry. Suitable for interior or exterior use. Expands as it hardens to set securely and lock in place for strong support. Any metals that will corrode when exposed to wet cement, such as aluminum, must be protected.

Features and Benefits

- Expands as it hardens to set securely
- Accelerated, sets in approximately 20 minutes
- Excellent flowability and workability
- Add water, mix, and use

Uses

- Interior/exterior
- Sets handrails, bolts, poles, and fixtures
- Concrete or masonry

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 651-686-9116 (7:30 AM to 4:00 PM M-F, 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

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Independent testing lab results @ 70°F (21°C)

| Set Time (ASTM C191) | |
|----------------------------------|-------------|
| Initial Set @ 70°F (21°C) | <15 minutes |
| Final Set @ 70°F (21°C) | <20 minutes |
| Compressive Strength (ASTM C109) | |
| 1 Hour | > 5000 psi |
| 2 Hour | >7000 psi |
| 24 Hours | >9,000 psi |
| 7 Days | >9,500 psi |
| 28 Days | >10,000 psi |

Test results obtained under controlled laboratory conditions.

LEED[®] Eligibility¹

- Regional Materials (MR-c4, MR-c5)
- Low-Emitting Materials (IEQ-c4.3)

Packaging

10 lb. (4.54 kg.) pail—BOM #129940
 50 lb. (22.7 kg) pail – BOM #120998

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

5. INSTALLATION

Preparation

- For best results, all materials should be stored at 40°F–80°F (4°C–27°C) 24 hours prior to installation.
- Surfaces to be anchored must be solid, clean, and free of all bond breakers such as oil, grease, dirt, etc. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means. Drill and remove all loose materials from the hole.
- Ensure the hole size is large enough to allow cement to flow between the fixture being anchored and the concrete hole. Typical hole clearance is a minimum of 1 inch (2.5 cm) larger than the fixture being anchored. Hole should be at least 2–4 inches deep (5–10 cm). Increased depth will also increase the pull-out strength.

5. INSTALLATION

Preparation (Cont.)

- Do not apply when temperatures will drop below 40°F (4°C) within 72 hours of application. Protect from rainfall for a minimum of 24 hours.
- Flush concrete hole with clean water just prior to application, remove any unabsorbed puddles of water, leaving a damp hole.

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

1. Mix as close to the area being repaired as possible. Mix approximately 2 ounces (0.06 L) of water to 1 cup (200 g) of Instant Anchoring Cement (approximately 5 parts powder to 1 part potable water, or 1-½ pints water with one 10 lb. pail). Always add powder to liquid to avoid lumps. Mixture will be a thick batter-like consistency. Additional water will reduce strength, adhesion and long term durability. When anchoring into walls, use less water to form a much stiffer putty-like consistency. Use clean water only, a bonding additive is not recommended. Hot water will accelerate set time, cold water will help slow the set time.
2. Mix to a uniform consistency by hand or use a mechanical mixer until a pourable consistency is reached. Avoid high speed mixing which can entrap air into the mixture.
3. Mix only the quantity that can be applied within 20 minutes.

Application

- Ideal application conditions are when air, material and substrate temperature are between 40°F–80°F (4°C–27°C).
- Place item to be anchored in the hole and stabilize from movement while pouring Instant Anchoring Cement mixture into the hole. Compact mixture, as needed, to ensure solid contact with fixture and to release any entrapped air from the cement mixture.
- If area is subject to water, taper the mixture to direct drainage away from fixture.
- If multiple pours are required, placement must be continuous to prevent cold joints between pours.
- Let set for one hour minimum before applying torque to bolt or fixture.

Limitations

- As with all cementitious materials, avoid contact with aluminum to prevent adverse chemical reactions and possible product failure.
- Do not retemper after mixing.
- Do not overwater or add other cements or additives

Curing

Let anchor set for one hour minimum before applying torque to bolt or fixture.

Cleaning

Use water to clean all tools immediately after use. Dried material must be mechanically removed.

Coverage

1 lb. fills approximately 17 cubic inches (279 cm³) or anchors 2 fixtures in a 2 inch (5 cm) diameter hole with a depth of 2 inches

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

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
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 3

¹Tenon® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

LEED® is a registered trademark of U.S. Green Building Council.



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