



1. PRODUCT NAME

Tenon® Instant Hydraulic Cement

2. MANUFACTURER

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

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3. PRODUCT DESCRIPTION

Tenon® Instant Hydraulic Cement is a quick-setting hydraulic cement compound used primarily as a water stop or hole filler. It expands when set and locks into place to block flowing water in 3–5 minutes. For use only on concrete and masonry materials. Best for repairing leaks in cracks between blocks or on one surface, not for stopping water flow in corners.

Features and Benefits

- Bonds to wet walls and underwater
- Sets in 3–5 minutes
- Just add water, mix, and use
- Stops seepage leaks
- Non-metallic
- Interior and exterior use
- Above and below grade
- Paintable when cured

Uses

- Plugs holes in walls
- Seals water flow in basement
- Swimming pool repairs

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

Note: Test results obtained under controlled laboratory conditions at 72°F (22°C) and 50% relative humidity. Reasonable variations can occur due to atmospheric and job site conditions.

LEED® Eligibility¹

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

Packaging

10 lb. (4.54 kg.) pail – BOM #129950
50 lb. (22.7 kg.) pail – BOM #128280

Tests Performed	Typical Values
Final Set @ 70° F (21° C)	3–5 Minutes
Compressive Strength (ASTM C109)	
2 Hours	>1,000 psi (6.9 MPa)
24 Hours	>2,500 psi (17.2 MPa)
7 Days	>4,500 psi (31.0 MPa)
28 Days	>5,500 psi (37.9 MPa)

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.
- Remove all loose or unsound materials. Thoroughly clean all surfaces and substrates of dirt, dust, grease, paint, or other contaminants that could inhibit adhesion.
- Do not apply to painted surfaces – paint must be removed to ensure proper adhesion to the substrate.
- Smooth troweled or dense concrete surfaces must be etched or roughened to ensure proper bond adhesion.
- Enlarge hole or crack to ½ in. (1.3 cm) or greater, if necessary, and make hole/crack bigger at back than on the front surface, this allows the Instant Hydraulic Cement to lock into place as it expands while setting.

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 ONLY THE AMOUNT OF MATERIAL THAT CAN BE APPLIED IN 5 MINUTES.
2. Mix approximately one part water to four parts Instant Hydraulic Cement. Always add the powder to the liquid to avoid lumps.
3. Use water only, bonding additive is not recommended. Hot water will accelerate setting; cool water will help to slow the set time.
4. Consistency should be stiff, but thoroughly mixed with no materials left dry.

Application

Apply only to surfaces that are frost free and above 40°F (4°C) and below 100°F (38°C) within 24 hours of application and 72 hours thereafter. Do not apply in direct sunlight or hot, windy days.

1. Pre-wet surface just prior to application.
2. After mixing is completed, quickly apply material with trowel or gloved hands. Wear gloves at all times, failure to do so can result in severe burns.
3. Hold in place for 3–5 minutes when plugging a hole with actively flowing water.
4. When repairing inactive leaks with no running water present, thoroughly dampen the area being patched.
5. The mixed Instant Hydraulic Cement can also be placed in a small plastic bag, while holding close to the hole, turn the bag inside-out and force the mixed product quickly into the hole from the bag.
6. After 3–5 minutes, Instant Hydraulic Cement will be firm enough to shave using a steel trowel. Shave small amounts at a time to make flush with the surrounding surface.

Limitations

- Wear protective gloves at all times, failure to do so can result in severe burns.
- Mix with clean water only, do not add accelerators or retarders.
- Do not apply to painted surfaces. Paint must be mechanically removed to ensure proper adhesion to the substrate.
- Do not use as paint or trowel applied waterproofing.
- Do not use as a slurry coat.
- As with all cementitious materials, avoid contact with aluminum to prevent adverse chemical reactions and possible product failure.

Curing/Painting

Protect from excessive drying due to temperatures, air movement, and direct sunlight. Under hot and windy conditions, all concrete tends to lose moisture unevenly and may develop plastic shrinkage cracks. Product will harden to touch within about 3–5 minutes. Wait until the product fully cures before painting. Allow a minimum of 7 days for product to cure when temperatures are between 65°–75°F (18°–24°C) with no rain. Use a high-quality, exterior masonry grade, breathable acrylic latex paint. Prime the surface prior to applying paints.

Cleaning

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

Coverage

1 lb. fills approximately 18 in³ (295 cm³) or a 1 inch deep x ¼ inch wide x 6 feet long crack (2.5 cm x 0.6 cm x 1.8 m)

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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