

1. PRODUCT NAME

Tenon® Concrete Resurfacer

2. MANUFACTURER

TCC Materials®

2025 Centre Pointe Blvd.

Mendota Heights, MN 55120 USA

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3. PRODUCT DESCRIPTION

Tenon® Concrete Resurfacer is a fast-setting, high-strength, polymer-modified, cement-based product used for resurfacing old concrete to make it look new again.

Features and Benefits

- Excellent bond to old concrete, down to feather edge
- Hardens quickly
- Less expensive alternative to concrete replacement
- Self curing, no additional curing compounds needed
- Interior/exterior
- Contains corrosion inhibitor
- Can be pigmented to suit job site requirements
- High flexural and compressive strength
- No primer needed
- Fast drying, walkable in 2 hours
- Durable, freeze thaw resistant
- Apply using a steel trowel, squeegee, masonry brush for curbs or steps and broom finished
- Applications from feather edge to ½ in. (2-13 mm)

Uses

- Commercial and residential applications
- Walkways
- Concrete stairs
- Garage floors
- Pool decks
- Patios
- Driveways

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, 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

Typical Values • Tenon® Concrete Resurfacer	
Mix Ratio (Water to Powder)	4-5½ qt. (3.8-5.2 L) per 50 lb. (22.7 kg)
Working Time @ 70°F (21°C)	20-30 minutes
Set Time (ASTM C191)	
Final Set @ 70°F (21°C)	90-120 minutes
Compressive strength ASTM C109 (air cured)	
1 day	≥ 2,400 psi (16.5 MPa)
28 days	≥ 5,000 psi (34.5 MPa)

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

Note: Test results obtained under controlled laboratory conditions at 73°F (22.7°C) and 50% relative humidity unless otherwise specified. Tested using 4 qt. (3.8 L) water per 50 lb. (22.7 kg) powder. Reasonable variations can occur due to atmospheric and job site conditions.

LEED® Eligibility¹

- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.2)

Packaging

50 lb. (22.7 kg.) bag (BOM #120728)

Shelf Life

6 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

Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminant that will act as a bond breaker. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means such as scarifying or high pressure washing. Acid etching or chemical cleaning is not acceptable. The area should be saturated surface dry (SSD) with no standing water, prior to application.

5. INSTALLATION (cont.)

Preparation (cont.)

Crack Repair:

- Expansion joints should be reflected through the Concrete Resurfacer. Larger cracks must be repaired with a cement based patching compound such as Tenon Vinyl Concrete Patch prior to applying Concrete Resurfacer.
- Repaired areas must be set firmly prior to applying Concrete Resurfacer. Any non-moving cracks should be "V" saw cut to a solid core and be filled with an acrylic caulk.
- Crack repairs should be allowed to cure and set completely prior to covering. This will take approximately 60 minutes at 70°F (21°C)
- When Concrete Resurfacer is used as a veneer over cracked concrete, it is possible that existing cracks, particularly those that move even when repaired, may mirror through the thin layer of Concrete Resurfacer.
- All materials should be stored at 40°F (4°C) to 80°F (27°C) 24 hours prior to installation.

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

- For each 50 lb. (22.7 kg) bag of Concrete Resurfacer, add 4 qt. (3.7 L) to 5½ qt. (5.2 L) of clean, potable water into a mixing drum. Then add the Concrete Resurfacer powder, while mixing at full speed with a paddle mixer attached to a heavy-duty ½" drill.
- Mix completely for a minimum of 2-3 minutes until lump free. Do not add additional water. Mix with water only, do not use liquid additives.

Application

- Apply when air or substrate temperature is between 50° F (10°C) and 90°F (32°C).
- Concrete Resurfacer should only be applied to a properly prepared substrate. Remove any material that interferes with bond including dust and dirt by brooming and vacuuming.
- Pour the mixed Concrete Resurfacer onto the substrate.
- Spread the material with a squeegee, or flat trowel using enough pressure to assure good contact with the entire surface then broom finish.
- Expansion joints should be marked to prevent being filled with Concrete Resurfacer. Work in areas small enough for easy access for broom finishing without having to walk on the fresh Concrete Resurfacer. A broom finish needs to be applied within 10-15 minutes.

Application (cont.)

- Pour subsequent applications while the previous application is still wet.
- On vertical installations such as stairs, trowel Concrete Resurfacer directly onto the properly prepared distressed area and finish as desired, less water may be required.
- Concrete Resurfacer can be applied at a thickness of up to ½" (13 mm)
- Can accept foot traffic after 2 hours, and rubber wheel traffic after 8 hours at 70°F (21°C).
- Not intended to match the color of the concrete being repaired.

Curing and Sealing

- Curing, application, ambient, and substrate temperature should be a minimum of 50°F (10°C). Concrete Resurfacer is self-curing; however, do not allow the product to freeze or be exposed to rain within 24 hours of placement.
- Concrete Resurfacer is a cement-based product. Therefore, temperature, wind, and substrate conditions will affect performance. To avoid dusting and staining, Concrete Resurfacer should be sealed using a water-based, breathable concrete sealer.
- Concrete Resurfacer dries to a light gray color. However, cements will vary in color, thus affecting the color of concrete. Additionally, age and job site conditions will play a role. Therefore, Concrete Resurfacer may not match the surrounding distressed concrete. A test application is recommended to determine color suitability.

Cleaning

Use clean potable water to clean all tools immediately after use. Dried material must be mechanically removed. Use a waste water hardener (e.g. Conglez™ or similar product) for cementitious waste disposal.

Limitations

- Do not retemper.
- Do not use in heavy industrial applications such as steel wheeled traffic, loading docks, or heavy manufacturing and heavy truck areas.
- Do not overwater or mix with additives.
- Do not use in permanently submerged areas, such as within swimming pools, fountains, etc.

Coverage

Nominal Thickness	Approximate Coverage per 50 lb. (22.7 kg) bag
1/16 in. (1.6 mm)	100 sq. ft. (9.3 m²)
1/8 in. (3 mm)	50 sq. ft. (4.65 m²)
1/4 in. (6 mm)	25 sq. ft. (2.32 m²)
1/2 in. (12 mm)	12.5 sq. ft. (1.16 m²)

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, M-F, CST):

Phone: 1.651.688.9116

Email: info@tccmaterilas.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

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



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