Masonry Veneer Joint Grout

1. PRODUCT NAME
Tenon® Masonry Veneer Joint Grout

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® Masonry Veneer Joint Grout is a blend of dry, cementitious materials, performance admixtures, and sand specifically designed to fill or tuck–point the joints between artificial stone, brick, masonry, and natural stone in veneer systems. Preblended with air–entrainment admixtures to resist freeze–thaw conditions, while increasing flow and durability. Masonry Veneer Joint Grout creates a high–performance, professional grout, formulated for clean installation and flow properties to eliminate clogging when using a grout bag. Available in Natural Gray, White, Tan, and Brown.

Features and Benefits
- Convenient for small or large jobs
- Pre–blended, just add water, mix, and use
- High strength
- Air–entrained for freeze–thaw durability
- Non–sag
- Consistent quality from bag to bag
- Formulated for optimal bond and reduced cracking
- Excellent flow characteristics in grout bag applications
- Resists water penetration and efflorescence

Uses
- Cementitious grout to tuck–point and fill joints between precast, lightweight, masonry veneer units
- Interior or exterior

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.

CAUTIONS (Cont.)
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
Tenon® Masonry Veneer Joint Grout has been tested under laboratory conditions to meet or exceed ASTM C270.Note: Test results obtained under controlled laboratory conditions at 72°F (22° C) and 50% relative humidity. Tested using 3.6 qt. (3.4 L) water per 50 lb. (22.7 kg) bag. Reasonable variations can occur due to atmospheric and job site conditions.

Typical Values • Masonry Veneer Joint Grout	
Bucket Life @ 70°F (21°C)	2 hours
Compressive Strength ASTM C–109 (28 days)	3800–4300 psi (26.2–29.6 MPa)

Applicable Standards:
- ASTM C 91 Standard Specification for Masonry Cement
- ASTM C 109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
- ASTM C 144 Standard Specification for Aggregate for Masonry Mortar
- ASTM C 150 Standard Specification for Portland Cement
- ASTM C 207 Standard Specification for Hydrated Lime for Masonry Purposes
- ASTM C 270 Standard Specification for Mortar for Unit Masonry
- ASTM C 595 Standard Specification for Blended Hydraulic Cements
- ASTM C 897 Standard Specification for Aggregate for Job–Mixed Portland Cement Based Plaster
- ASTM C 926 Standard Specification for Application of Portland Cement Based Plasters
- ASTM C 979 Standard Specification for Pigments for Integrally Colored Concrete
- ASTM C 1329 Standard Specification for Mortar Cement

LEED® Eligibility[1]
- Regional Materials (MR–c4, MR–c5)
- Low–Emitting Materials (IEQ–c4.3)

4. TECHNICAL DATA (Cont.)
Packaging
- Gray: 50 lb. (22.7 kg.) bag (BOM #120463)
- White: 50 lb. (22.7 kg.) bag (BOM #120464)

- Tan: 50 lb. (22.7 kg) bag (BOM #120465)
- Brown: 50 lb. (22.7 kg) bag (BOM #120466)

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
Refer to selected stone manufacturers installation instructions for more complete instructions. Install in accordance with all local building code provisions and applicable ASTM standards.

- Spaces to be grouted or surfaces to be tuck–pointed must be structurally sound, clean, dry, and free from dirt, loose particles, curing compounds, grease, paint, efflorescence, and any foreign materials that could inhibit adhesion.
- For best results all materials should be conditioned to 40°F–75°F (4°–24°C) 24 hours prior to installation.
- Fresh installations of veneer units should be firmly set and allowed to cure a minimum of 12 hours before grouting.
- If a sealer is going to be used on the veneer units, it can be applied as a grout release with a brush or roller to the clean, dry unit surface before grouting. Care must be taken to keep the sealer on the face of the units only. This step can help to keep any spilled or unwanted Masonry Veneer Joint Grout from sticking to the surface of the units, yet allow the grout to stick to the sides of the units.
- Joints should generally be ⅜–⅝ in. (9.5–16 cm) wide and should not exceed 3 in. (7.5 cm) width. Grout depth should be a minimum of ¼ in. (6 mm) and a maximum of 2 in. (5 cm) and should be as consistent as possible to maintain even color, especially for colored or white joint grout.

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. For best results, use a paddle mixer or mechanical batch mixer to ensure homogeneity and workability, however, avoid high–speed mechanical mixing which can entrap air into the mixture. Always use full bags only. Do not exceed mixer capacity. Hand mixing mortar is not recommended.
2. Use cool, clean, potable water in the range of 50º–80ºF (10º–27ºC) for mixing. Always use clean tools and containers.
3. Add just enough dry mix to the liquid, begin with 2.5 qt. (2.4 L) water per 50 lb. (22.7 kg) bag. Add additional water sparingly up to 4 qt. (3.8 L) total, while mixing 3–5 minutes. Too much water will cause reduced strength. Grout should be a uniform, lump–free consistency, firm, but workable to be trowelable, and stiff enough to retain ridges and peaks when troweled on a horizontal or vertical surface.
4. Let mortar slake/rest for 5 minutes, Remix and use. Do not add additional powder or liquid after slaking, as this may cause shrinkage. Stir occasionally to keep fluffy. Maintain water and mixing time consistency among batches.
5. 5. Bucket life is approximately 2 hours, at normal temperatures of 70°F (21°C). Warmer temperatures will reduce the bucket life. Do not mix more product than can be placed in 2 hours. Do not retemper.

Application
Apply only to surfaces that are frost free and between 40°–90°F (4.4°C–32°C) within 24 hours of application and 72 hours thereafter. Do not apply in direct sunlight on hot, windy days, or when rain is expected within 24 hours.

- For best results, place Masonry Veneer Joint Grout into a mortar/grout bag, then squeeze the grout bag to fill joints around each unit. Grout can also be installed using a trowel and tuck–pointing tool, or tuck–pointing gun.
- Cut approximately ½ in. (13 mm) hole in tip of grout bag. Fill bag about ½ to ¾ full of the Masonry Joint Grout. Twist the top end of the bag and squeeze to remove any air pockets, then fill all joints between veneer units to desired depth. Trowel, rake and/or brush to consolidate and smooth the joints, keeping Masonry Veneer Joint Grout from the surface of the veneer units.
- Once the grout stiffens to become thumbprint hard, but not fully set–up, use a jointing tool or S–tool to strike joints to desired finish. Be consistent with tooling techniques.
- Remove all dry, loose grout with a circular motion using a masonry brush or small soft bristle brush.
- Avoid rapid hardening or excessive water loss due to evaporation by working in sections less than 5–10 sq. ft. (0.4–0.9 m^2).
- Do not apply grout into control or movement joints, or where veneer stone meets dissimilar materials such as glass, wood, or vinyl. Use an elastomeric, flexible sealant or caulking in those spaces.

Curing
If conditions are very hot (>80°F/26°C), dry, or windy, curing with a gentle mist of water will help prevent premature drying and improve mortar strength.

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
- Masonry Veneer Joint Grout shall be used and placed in final position within 1 hour after initial mixing or discarded at that time. Do not mix more grout than can be placed in 60 minutes. Colder temperatures or higher humidity will slow set times.

- Any variations in mix water amount, mixing time, curing conditions, and finishing can cause color variations.
- Do not retemper, adding additional water after initial mixing.
- Do not overwater.
- Do not rake and tool finish joints too early or too late to maintain color consistency throughout the project.
- Install in accordance with local building codes and applicable ASTM standards.
- Do not apply to frozen surfaces and protect installation from freezing for 72 hours.
- Do not apply when rain is forecasted within 24 hours.
- Follow precast masonry / stone veneer manufacturer's instructions and requirements for grouting.

Coverage

- 50 lb. (22.7 kg) bag: Yields approximately .44 cu. ft. (12.5 L), coverage in joints will vary with depth and width.

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 dama ges 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@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 4

[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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