

1. PRODUCT NAME

TechPro® Stone Veneer Joint Grout

2. MANUFACTURER

Bluestone Products®, a TCC Materials® company
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3. PRODUCT DESCRIPTION

TechPro® Stone Veneer Joint Grout is a mixture of dry cementitious materials and dried sand that is designed to fill joints between real or manufactured stone veneer units. The product is preblended with air-entrainment admixtures to resist freeze-thaw conditions while increasing flow and durability. Specially formulated for clean installation and flow properties to eliminate clogging when using a grout bag. TechPro® Stone Veneer Joint Grout is “Step 3” of the TechPro® stone veneer installation system used to create decorative exterior or non-load bearing interior veneer walls and is available in Gray, Brown, Tan, and White to either complement or contrast any veneer wall.

Features and Benefits

- Excellent flow characteristics in grout bag applications
- Preblended—just add water, mix, and use
- Air-entrained for freeze-thaw durability
- Colors to compliment or contrast veneer units
- Excellent workability
- Consistent quality from bag to bag
- Durable, formulated for optimal bond and reduced cracking
- Convenient for small or large jobs
- Resists water penetration and efflorescence

Uses

- Cementitious grout to tuck-point and fill joints between masonry veneer units, artificial stone, brick, and natural stone
- Interior or exterior
- Above and below grade applications

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 TechPro® brand product(s) under normal environmental and working conditions. Because each project is different, neither TechPro® nor TCC Materials® can be responsible for the consequences—variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

TechPro® Stone Veneer Joint Grout has been tested under laboratory conditions to meet or exceed ASTM C 270 .

Typical Values	
Bucket Life @ 70°F (21°C)	2 hours
Compressive Strength ASTM C-109 (28 days)	>1800 psi (12.4 MPa)

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.

Packaging

- Gray: 50 lb. (22.7 kg) bag – Product #120446
- Brown: 50 lb. (22.7 kg.) bag – Product #120448
- Tan: 50 lb. (22.7 kg.) bag – Product #120448
- White: 50 lb. (22.7 kg.) bag – Product #120447
- Charcoal: 50 lb. (22.7 kg) bag– Product #130110

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–80°F (4°–27°C) 24 hours prior to installation.
- Fresh installations of stone 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 stone 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 joint grout from sticking to the surface of the units, yet allow the grout to stick to the sides of the units. Always check with the stone veneer supplier for the type of sealer to be used and test in a small area prior to application.
- Joints should generally be $\frac{3}{8}$ – $\frac{5}{8}$ in. (9.5–16 mm) wide and should not exceed 3 in. (7.5 cm) width. Grout depth should be a minimum of $\frac{1}{4}$ 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.

Mixing

1. Use cool, clean, potable water in the range of 50°–80°F (10°–27°C) for mixing. Always use clean tools and mixing containers. Mix with water only, no bonding additives.
2. 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 by mechanical mixer or by hand. Too much water will cause reduced strength. Mortar should be a uniform, lump-free consistency. Grout should be firm, but workable to be trowelable, and stiff enough to retain ridges and peaks when troweled on a horizontal or vertical surface.
3. 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.
4. 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.

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 Stone 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 $\frac{1}{2}$ in. (13 mm) hole in tip of grout bag. Fill bag about $\frac{1}{2}$ – $\frac{3}{4}$ full of the 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 consolidated and smooth the joints.
- Once the grout surface dries to become firm and thumbprint hard, but not fully set-up, use a jointing tool or S-tool to strike joints to the desired finish. Be consistent with tooling techniques.
- Remove all dry, loose grout, or excess residue with a circular motion using a masonry brush or small soft bristle brush.
- Avoid rapid hardening or excessive water loss by evaporation by working in sections less than 5–10 sq. ft. (0.4–0.9 m²).
- Keep Stone Veneer Joint Grout from the surface of the stone veneer units, colored grouts in particular can stain the surface. Do not allow grout spots on the face of the stone to set-up overnight. In most cases, allow the grout to dry slightly to become “crumbly”, then remove with a brush, whisk broom, steel wool, or trowel with a light circular motion. If grout is removed while very wet, it is likely to smear.
- 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 such as TechPro® Stone Veneer Sealant in those spaces.

Clean up

- Clean all tools with soapy water before mortar dries.

Limitations

- 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.
- Follow precast masonry/stone manufacturers instructions and requirements for grouting instructions and techniques.

Curing

If conditions are very hot, dry, or windy, curing with a gentle mist of water will help prevent premature drying and improve mortar strength.

Coverage

- 50 lb. (22.7 kg) bag: Yields approximately .44 ft³ (12.5 L), coverage in joints will vary with depth and width.

6. AVAILABILITY

To locate TechPro® 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.

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