

1. PRODUCT NAME

ProSpec® Stone Veneer Sealant

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
2025 Centre Pointe Blvd, Suite 300
Mendota Heights, MN 55120 USA

Phone: 1.651.688.9116
Fax: 1.651.688.9164
Internet: tccmaterials.com

3. PRODUCT DESCRIPTION

ProSpec® Stone Veneer Sealant is a one-component, high-performance, non-priming, gun-grade, polyurethane elastomeric sealant. It requires no mixing and typically requires no priming to bond to many materials, including concrete and masonry. Available in Gray, Brown, Tan, and White to coordinate with ProSpec® Stone Veneer Joint Grout. Part of a ProSpec® stone veneer installation system used to create decorative exterior or non-load bearing interior veneer walls.

Features and Benefits

- One-component formula requires no mixing, helping to reduce labor costs
- Joint movement capability $\pm 35\%$ provides excellent flexibility for keeping moving joints weathertight
- Easy to gun and tool, speeding up application and making neater joints
- 4 colors to match a wide variety of common substrates including ProSpec® Stone Veneer Joint Grout
- Initial cure of 24 hours
- Final cure of 7 days
- Maximum width 1 in. 2.5 cm, maximum depth 1/2 in. (1.3 cm)
- No primer required for most construction materials lowering installation costs
- Weather resistant for long-lasting weathertight seals
- Wide temperature application range makes suitable for all climates
- Compatible with non-rigid coatings and can be painted
- Superior holding power for long-lasting roof tile installation
- Meets VOC requirements in all 50 states

Uses

- Interior and exterior
- Above and below grade
- Horizontal or vertical
- Expansion joints
- Aluminum and wood window frames

Recommended Substrates

- Concrete
- Masonry
- Aluminum
- Wood
- Clay & concrete roof tiles
- Stucco
- Manufactured and natural stone

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

4. TECHNICAL DATA

Typical Properties	
Property	Value
Service Temperature Range	-40 to 180°F (-40 to 82°C)
Shrinkage	None

Property	Results	Test Method
Movement Capability	$\pm 35\%$	ASTM C 719
Tensile Strength	350 psi (2.4 MPa)	ASTM D 412
Tear Strength	50 pli	ASTM D 1004
Ultimate elongation at break	800%	ASTM D 412
Rheological (sag in vertical displacement) at 120°F (49°C)	No sag	ASTM C 639
Extrudability, 3 seconds	Passes	ASTM C603

4. TECHNICAL DATA (Cont.)

Property	Results	Test Method
Hardness, Shore A At standard conditions After heat aging (max Shore A: 50)	25–30 25	ASTM C661
Weight loss, after heat aging	3%	ASTM C792
Cracking and chalking after heat aging	None	ASTM C792
Tack-free time, hrs, (maximum 72 hours)	Passes	ASTM C679
Stain and color change	Passes	ASTM C510
Adhesion* in peel (min. 5 pli)	30 pli	ASTM C794
Adhesion* in peel after UV radiation through glass (min. 5 pli)	Passes	ASTM C794
Artificial weathering Xenon arc, 250 hours	Passes	ASTM C793
Artificial weathering Xenon arc, 3000 hours	Passes	ASTM C793
Water immersion, 122°F (50°C)	Passes 10 weeks with movement cycling	ASTM C1247

* Primed for water immersion dictated by ASTM C 920. Concrete and aluminum primed with P 173.

Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions.

Applicable Standards:

- ASTM C 920, Type S, Grade NS, class 35, Use NT, M, A, T, O* and I
- Federal Specification TT-S-00230C, Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Specification CAN/CGSB-19.13-M87, Classification MCG-2-25-A-N, No. 81026
- CFI accepted
- ISO 11600-F-25LM

VOC

35 g/l less water and exempt solvents

Packaging

- Gray – 10.1 oz. (300 ml) cartridge (BOM #120450)
- Brown – 10.1 oz. (300 ml) cartridge (BOM #120453)
- Tan – 10.1 oz. (300 ml) cartridge (BOM #120452)
- White – 10.1 oz. (300 ml) cartridge (BOM #120451)

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

Joint Preparation

1. The product may be used in sealant joints designed in accordance with SWR Institute's Sealants – The Professional's Guide.
2. In optimal conditions, the depth of the sealant should be ½ the width of the joint. The sealant joint depth (measured at the center) should always fall between the maximum depth of ½" and the minimum depth of ¼". Refer to Table 1.
3. In deep joints, the sealant depth must be controlled by closed cell backer rod or soft backer rod. Where the joint depth does not permit the use of backer rod, a bond breaker (polyethylene strip) must be used to prevent three-point bonding.
4. To maintain the recommended sealant depth, install backer rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed cell backer rod should be about ⅛" (3 mm) larger in diameter than the width of the joint to allow for compression. Soft backer rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bond the backer-rod.

Table 1: Joint Width and Sealant Depth

Joint Width	Sealant Depth at Midpoint
¼–½" (6–13 mm)	¼" (6 mm)
½–¾" (13–19 mm)	¼–⅜" (6–10 mm)
¾– 1" (19–25 mm)	⅜–½" (10–13 mm)
1–1½" (25–38 mm)	½" (13 mm)

Surface Preparation

Substrates must be structurally sound, fully cured, dry, and clean. Substrates should always be free of the following: dirt, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, membrane materials and sealant residue.

CONCRETE, STONE, and other MASONRY

Clean by grinding, sandblasting or wire brushing to expose a sound surface free of contamination and laitance.

WOOD

New and weathered wood must be clean, dry and sound. Scrape away loose paint to bare wood. Any coatings on wood must be tested to verify adhesion of sealant or to determine an appropriate primer.

5. INSTALLATION

Preparation (Cont.)

METAL

Remove scale, rust and loose coatings from metal to expose a bright white surface. Any coatings on metal must be tested to verify adhesion of sealant or to determine an appropriate primer.

Priming

- ProSpec® Stone Veneer Sealant is considered a non-priming sealant, but special circumstances or substrates may require a primer. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Consult Technical Service for additional information.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Application

1. ProSpec® Stone Veneer Sealant comes ready to use. Apply using professional grade caulking gun. Do not open cartridges until preparatory work has been completed. Trim cartridge at an angle to desired bead size and puncture inner seal.
2. Fill joints from the deepest point to the surface by holding an appropriately sized nozzle against the back of the joint.
3. Dry tooling is recommended. Proper tooling results in the correct bead shape, neat joints, and optimal adhesion.
4. For roof tile applications apply a bead of Stone Veneer Sealant sufficient in size to make a bond between two tiles on the upper surface of the down slope tile. Install the upslope tile and press into the sealant bead to ensure good contact between the sealant and both tiles.

Clean up

1. Immediately after use, clean equipment with organic solvent or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. Remove thin films by abrading.

Limitations

- Do not allow uncured ProSpec® Stone Veneer Sealant to come into contact with alcohol-based materials, solvents, oil-based caulking, uncured silicone sealants, polysulfides, or fillers impregnated with oil, asphalt or tar.
- Protect unopened containers from heat and direct sunlight.
- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- Do not use in swimming pools or other submerged conditions.
- Substrates such as copper, stainless steel, and galvanized steel typically require the use of a primer. An adhesion test is recommended for any other questionable substrates.
- ProSpec® Stone Veneer Sealant is an aromatic urethane, as such it may discolor over time with UV exposure.

- Apply in below freezing temperatures only if substrates are completely dry, free of moisture and clean. Contact Technical Service for more information.
- Lower temperatures and humidities will extend curing times.
- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant. However, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Proper application is the responsibility of the user.
- Not for use in glazing applications. Do not apply on glass and plastic glazing panels.

Curing

The cure of ProSpec® Stone Veneer Sealant varies with temperature and humidity. The following times assume 75° F (24° C), 50% relative humidity, and a joint ½" width by ¼" deep (13 x 6 mm).

- Skins: overnight or within 24 hours
- Full cure: approximately 1 week

Coverage

Linear Feet (meters) per 10.1 oz. tube			
Joint Width	¼" (6 mm) Joint Depth	⅜" (10 mm) Joint Depth	½" (13 mm) Joint Depth
¼" (6 mm)	24.3 ft (7.4 m)		
⅜" (10 mm)	16 ft (4.9 m)		
½" (13 mm)	12 ft (3.7 m)		
⅝" (16 mm)	9.6 ft (2.9 m)	6.5 ft (1.9 m)	
¾" (19 mm)		5.4 ft (1.6 m)	4 ft (1.2 m)
1" (25 mm)		4.5 ft (1.4 m)	3 ft (0.9 m)

6. AVAILABILITY

To locate ProSpec® 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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Data Sheets are subject to change without notice.
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2025 Centre Pointe Blvd, Suite 300,
Mendota Heights, MN 55120

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