

TVIS™ PREMIUM PCL STONE VENEER MORTAR

1. Product Name

TVIS Premium PCL Stone Veneer Mortar

2. Manufacturer

Custom Building Products
13001 Seal Beach Blvd.
Seal Beach, CA 90740-2757
Customer Support: 800-272-8786
Technical Services: 800-282-8786
Fax: 800- 200-7765
Email: contactus@cbpmail.net
custombuildingproducts.com

3. Product Description

TVIS Premium PCL Stone Veneer Mortar is a pre-blended mortar for use with thin veneer, veneer stone and natural stone, eliminates the need for site mixing sand and cement. With a non-slump formula Premium PCL Stone Veneer Mortar can be applied up to 2" (5 cm) thick without shrinking, checking or cracking.

When mixed with water, TVIS Premium PCL Stone Veneer Mortar can be used with the following

- Interior and exterior thin veneer installations
- Concrete, mortar beds, masonry
- WonderBoard®, cement backerboards

When mixed with TVIS SBR Masonry Mortar Admix, TVIS Premium PCL Stone Veneer Mortar can be used with

- Exterior grade plywood (interior residential and light commercial dry areas)
- Waterproofing membranes, such as TVIS Veneer Waterproofing Membrane

COMPOSITION & MATERIALS

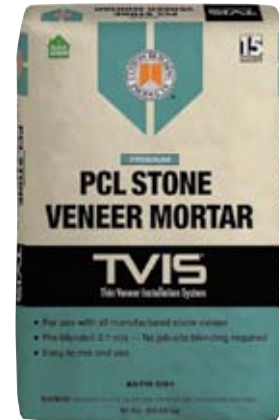
TVIS Premium PCL Stone Veneer Mortar is a Portland cement based mortar.

BENEFITS

- Designed for adhering thin brick, thin veneers, and manufactured stone and for large dimensional stone and tile up to 12" x 12" (30 x 30 cm)
- Can be used to float floor or wall surfaces up to 2" (5 cm) thick
- Meets A118.1A, Section 2.1 without the need for additives.

Accessories

TVIS SBR Masonry Mortar Admix is an additive available for use with TVIS Premium PCL Stone Veneer Mortar to improve bond strength and increase tensile and compressive strength.



LIMITATIONS

- Do not bond directly to hardwood, Luan plywood, particle board, metal, fiberglass, plastic or OSB panels.
- When setting moisture sensitive natural stone, cement or agglomerate tile, check with Technical Services; use EBM-Lite™ Epoxy Bonding Mortar.
- Do not use to install resin-backed stone, use EBM-Lite Epoxy Bonding Mortar.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm) contact Technical Services for recommendations regarding deflection requirements.

PACKAGING

- 50 lbs (22.68 kg) bag
- Gray

4. Technical Data

APPLICABLE STANDARDS

TVIS Premium PCL Stone Veneer Mortar is compliant with the following:

- American National Standards Institute (ANSI) – ANSI A108.5, A118.4, A118.11.
- ASTM C91 Standard Specification for Masonry Cement
- ASTM C144 Standard Specification for Aggregate for Masonry Mortar, as a component of the manufactured mortar.
- ASTM C150 Standard Specification for Portland Cement, as a component of the manufactured mortar
- ASTM C207 Standard Specification for Hydrated Lime for Masonry purposes, as a component of the manufactured mortar.
- ASTM C270 Standard Specification for Mortar with Masonry Units



- ASTM C1072 Standard Test Method for Measurement of Masonry Flexural Strength.
- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars.

Tile Council of North America (TCNA) - TCNA Handbook for Ceramic Tile Installation

TECHNICAL PROPERTIES

Property	Results
Pot life	45 minutes
Open time	15 minutes
Adjustment time	20 minutes
Shear bond @ 28 days	
Bisque tile	350 psi (24.6 kg/cm ²)
Compressive Strength @28 days 2" cube (50 mm)	Greater than 5000 psi 2.3 MPa

ENVIRONMENTAL CONSIDERATIONS

Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.

The use of CustomTVIS Premium PCL Stone Veneer Mortar may contribute to LEED® certification.

5. Installation

PREPARATORY WORK

General Surface Preparation:

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives and other contaminants that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt and other contaminants. Ambient temperature, surfaces and materials should be 50 – 100° F (10 – 38° C) for 72 hours.

Cementitious Surfaces:

Concrete or plaster must be fully cured and must accept water penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved. If water beads, surface contaminants are present, and loss of adhesion may occur. Contaminants must be removed from the surface before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be mechanically abraded to ensure a good bond.

Plywood Substrates:

Do not apply directly to plywood. Use isolation membrane and metal lath. Mortar beds over plywood floors must be 1-1/4" (32 mm) thick. Plywood substrates must be structurally sound and must meet all local building codes and ANSI deflection requirements. Plywood floors including those under resilient flooring must be built to industry standards. For questions and proper substrate installations, contact Custom Building Products.

WonderBoard Backerboard:

As an alternative to an additional layer of plywood, WonderBoard backerboard may be used.

Expansion Joints:

Expansion joints should never be bridged with setting material. They must be brought through the finished masonry work and filled with an approved elastomeric sealant.

METHODS

Mixing

Mix 3 - 4 quarts (2.8 - 3.78 L) of cool clean water and 50 lbs. (22.68 kg) Premium PCL Stone Veneer Mortar. For added bond strength and flexibility mix 3 - 4 quarts (2.8 - 3.78 L) of SBR Masonry Mortar Admix and 50 lbs. (22.68 kg) powder together.

Mix by hand or use a low 150 – 200 rpm speed 1/2" (13 mm) drill to achieve a smooth, paste-like consistency. Let the mixture slake or stand 5 – 10 minutes; stir again and use.

Stir occasionally, but do not add more water. When properly mixed, troweled ridges will stand without slump. Mix ratios will vary depending on climatic conditions and veneer weight.

Application

Apply a scratch coat of mortar to the surface. With a margin or pointing trowel, apply additional mortar to the back of the manufactured stone or thin veneer. Press into place moving back and forth to ensure complete coverage. Adjust manufactured stone or thin veneer promptly. Beat with a rubber mallet when applicable. Periodically pull up thin veneer or manufactured stone and check the back to ensure complete coverage with the mortar. Do not spread more material than can be covered in 15 minutes or while material has wet tack (sticky to the touch). If material has skinned over (not sticky), reapply. If too dry, remove and replace with fresh material. Material in bucket will remain workable for approximately 45 minutes.

Coverage

SQUARE FOOT COVERAGE PER 50 LB BAG (SQUARE METER PER 22.68 KG)	
THICKNESS	COVERAGE
1/2" (1.3 cm)	25 sq. ft. (2.3 M ²)

Curing

Allow to cure 24 hours before filling joints with Custom TVIS Premium Veneer Pointing Mortar, depending upon temperature and humidity.

Cleaning

Clean with water before the material dries.



PRECAUTIONS

This product contains Portland cement and free silica. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Do not breathe dust; wear a NIOSH approved respirator

BUILDING CODES

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6. Availability & Cost

Contact the manufacturer or visit customTVIS.com for information about product cost and availability.

ITEM CODE	SIZE	PACKAGE
TPCLSV50	50 lbs (22.68 kg)	Bag

7. Limited Product Warranty

Eligibility for Installation Systems Warranty

This product may be eligible for a Custom Building Products Installation Systems Warranty of up to 15 years, provided our products are used as a complete installation system.

Custom Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom’s sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom’s printed instructions. Custom makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another.

For details and complete warranty information, contact Custom Building Products or visit customTVIS.com.

8. Maintenance

Properly installed product requires no special maintenance.

9. Technical Services

For technical assistance, contact Custom Building Products or visit customTVIS.com.

10. Filing Systems

Additional product information is available from the manufacturer upon request.

Related Products

TVIS Premium Veneer Pointing Mortar

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