

# TVIS™ VENEER WATERPROOFING MEMBRANE

## 1. Product Name

TVIS Veneer Waterproofing Membrane

## 2. Manufacturer

Custom Building Products  
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Seal Beach, CA 90740-2757  
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## 3. Product Description

TVIS Veneer Waterproofing Membrane is a ready-to-use elastomeric membrane for both commercial and residential application. Suited for interior and exterior substrates, Veneer Waterproofing Membrane creates a continuous waterproofing barrier with outstanding adhesion. It bonds directly to metal, PVC, stainless steel and ABS plastics as well as all backerboards and mortar bed/concrete substrates.

Substrates suited for TVIS Veneer Waterproofing Membrane include:

- Concrete, cement mortar beds, masonry
- WonderBoard®, cement backerboards
- Exterior grade plywood
- Lightweight concrete
- Gypsum based cement toppings

### COMPOSITION & MATERIALS

TVIS Veneer Waterproofing Membrane is a liquid-applied elastomeric waterproofing material that cures to form a monolithic membrane.

### BENEFITS

- Easy to use and can be applied by roller, trowel or airless sprayer
- Rated for extra heavy duty service
- Reduces curing time with quick dry formula

### LIMITATIONS

- Do not apply to surfaces that may drop below 40° F (4° C) within 72 hours of application.
- Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
- Do not use to bridge or cover over existing expansion, control, construction, cold or saw cut joints.
- Do not use as an adhesive.
- Do not use as a wear surface; the membrane must be covered with veneer, cement skim coat or other permanent finish.



### PACKAGING

- 5 gallon (18.92 L) pail

## 4. Technical Data

### APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108.01 and A118.10 American National Standards for the Installation of Ceramic Tile

### ASTM International (ASTM)

- ASTM D638 Standard Test Method for Tensile Properties of Plastics

Tile Council of North America (TCNA) — TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171, F125 and F125A

### APPROVALS

TVIS Veneer Waterproofing Membrane has tested and complies with Uniform Plumbing Code and International Plumbing Code standards for use as a shower pan liner per IAPMO Research and Testing, Inc., File No. 4244.

TVIS Veneer Waterproofing Membrane has tested and complies with International Building Code (IBC), International Residential Code (IRC) and International Plumbing Code (IPC) standards for water resistance per ICC Evaluation Service, ESR-1413.

TVIS Veneer Waterproofing Membrane complies with the Product Control Division of the Miami Dade County Building Code Compliance Office for waterproofing standards and has earned a Notice of Acceptance (NOA), File No. 07-1010.16.

TVIS Veneer Waterproofing Membrane conforms to "safing material" requirements established by the Wisconsin Administrative Code, Chapter Comm 84.30-6f.



TECHNICAL PROPERTIES

Property	Results
Pot life	Indefinite
ASTM C191	
Initial set @ 70° F (21° C)	1 - 1.5 hours
Drying time before veneer or stone installation	1 - 1.5 hours
ANSI 118.10	
Fungus and microorganism resistance	Pass - No growth
Seam strength	16 lb/2" (7.3 kg/5 cm) width
Breaking strength	484 psi (34 kg/cm <sup>2</sup> )
Dimensional stability	0.05%
Waterproofness	Pass
Shear strength	
12 day dry cure	267 psi (18.8 kg/cm <sup>2</sup> )
Shear strength	
100 day water immersion	89 psi (6.3 kg/cm <sup>2</sup> )
ASTM C627	
Robinson floor test	14 cycles; extra heavy
ASTM D638	
% elongation 21 day dry cure	562%
% elongation 7 day dry cure/21 day wet cure	657%
IAPMO/Uniform Plumbing Code	
Waterproofness	Pass
Hydrostatic pressure and alkali resistance	Pass
FHA 4900-1-615-5, Sections C - D	Compliant
Permeance rating	0.06
Water vapor transmission	0.02 grains/hr ft <sup>2</sup>
Drying time is dependent upon ambient conditions; longer times may occur in cooler and damp conditions.	

ENVIRONMENTAL CONSIDERATIONS

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

Use of TVIS Veneer Waterproofing Membrane may contribute to LEED® certification.

5. Installation

PREPARATORY WORK

All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a good bond. Newly prepared concrete must be cured for 28 days and then troweled smooth and textured to a fine broom finish. Existing surfaces must be scarified and leveled, and all defects must be repaired.

METHODS

TVIS Veneer Waterproofing Membrane as General Waterproof Membrane (ANSI 118.10):

Lightly dampen all porous surfaces. Use a 3/4" (19 mm) rough textured synthetic roller or a 3/16" x 1/4" (5 x 6 mm) V-notch trowel and heavily pre-coat the corners and the intersections where the floors and walls meet, extending 6" (15 cm) on either side.

TVIS Veneer Waterproofing Membrane applied in the above manner meets requirements of ANSI A118.10 without fabric reinforcement. For extra protection, embed a 6" (15 cm) wide fiberglass mesh into the membrane for changes of plane and for gaps 1/8" (3 mm) or greater. If using a trowel, spread the material with the trowel held at a 45° angle, and then flattens the ridges. If using a roller, apply a continuous, even film with overlapping strokes.

An airless sprayer may be used for the waterproofing application. The sprayer must produce between 1900 - 2300 psi, with a flow rate of 1.0 - 1.5 gpm and must have a tip orifice size of 0.025 - 0.029. Apply a continuous film with overlapping spray. The membrane appearance is lighter in color when wet and dries to a dark color. It typically takes 1 - 1.5 hours to turn completely dark.

After the first coat turns dark, inspect the film for integrity and fill any voids or pinholes with additional material. Apply a second coat at right angles to the first coat.

Periodically check the film thickness with a wet film gauge. Combined dried coatings must be at least 30 - 35 mils thick. When wet, the combined coatings must be at least 60 - 70 mils and must not exceed 125 mils wet film thickness.

TVIS Veneer Waterproofing Membrane for Interior Change of Plane & Commercial Installations

Many commercial waterproofing installations require reinforcing of interior change of plane. Contact Technical Services for recommendations before beginning commercial installation including, but not limited to, the following:

- Perimeters where the floor abuts a curtain or shear wall
- Around the perimeter of all through floor penetrations (i.e., drain pipes, electrical conduit, etc.)
- Openings where window sills, returns, and lentils are installed.

TVIS Veneer Waterproofing Membrane at Drains:

Drains should have a clamping ring with open weep holes for thin-set application. Apply the membrane to the bottom flange. The drain should be fully supported, without movement, and should be even with the plane of the substrate. Apply the TVIS Veneer Waterproofing Membrane as described previously. Embed a 12" x 12" (30 x 30 cm) fiberglass mesh into the membrane, making sure it does not obstruct the drainage weep holes. Then apply an additional coat of the membrane



and smooth. After curing, clamp the upper flange onto the membrane and tighten. Use a silicone caulk around the flange where the membrane and the upper flange make contact. A toilet flange can be handled in much the same manner.

TVIS Veneer Waterproofing Membrane with Lightweight Concrete, Gypsum Based Underlayments & use as a Vapor Barrier over Concrete:

Lightweight or gypsum based materials must obtain a minimum of 2000 psi (13.8 MPa) compressive strength at the recommended cure time. The underlayment must be sufficiently dry and properly cured to the manufacturer’s specifications for permanent, non-moisture permeable coverings. Surfaces to be covered must be clean, structurally sound and subject to deflection not to exceed the current ANSI standards. Expansion joints must be installed in accordance with local building codes and ANSI/TCNA guidelines.

Prime all surfaces to receive TVIS Veneer Waterproofing Membrane with properly applied manufacturer’s sealer or with a primer coat of TVIS Veneer Waterproofing Membrane, consisting of 1 part TVIS Veneer Waterproofing Membrane, diluted with 4 parts clean, cool water. In a clean pail, mix at low speed to obtain a lump-free solution.

The primer can be brushed, rolled or sprayed to achieve an even coat. Apply the primer coat to the floor at a rate of 300 ft<sup>2</sup> / gal (7.5 M<sup>2</sup> / L) of reduced material. When dry, apply at least one full coat of TVIS Veneer Waterproofing Membrane to the primed area. When used as a vapor barrier, apply one full coat (20 to 25 mils wet) where vapor transmission is up to 8 pounds per 1000 square feet per day and two full coats (20 to 25 mils wet each coat) where vapor transmission is up to 12 pounds per 1000 square feet per day. Refer to ASTM F1869 for more information on Vapor Transmission Testing.

TVIS Veneer Waterproofing Membrane at Expansion Joints:

Do not bridge joints designed to experience movement. Carry these types of joints through the veneer or stone work. Clean the joint and install an open or closed cell backer rod to the proper depth, as outlined in the Tile Council Handbook, EJ171. Next compress sealant into the joint, coating the sides and leaving the sealant flush with the surface. When the sealant is dry, place bond breaker tape over the joint.

Apply a minimum 3/64" (1.2 mm) of TVIS Veneer Waterproofing Membrane over the joint and the substrate, following the instructions provided previously. Install the veneer or stone onto the membrane, but do not bridge the joint. After the veneer or stone work is properly set, follow the architect’s and manufacturer’s instructions to fill the joint with a specified color sealant.

Protection

If veneer or stone will not be set immediately after curing, protect the TVIS Veneer Waterproofing Membrane application from rain, direct sunlight and inclement weather for 72 hours after application. If delays longer than 72 hours are expected, cover the area with felt paper. Care should be taken to prevent the application from becoming soiled or punctured during and after application.

Veneer and Stone Installation:

Install veneer or stone with a the proper TVIS mortar

Curing

TVIS Veneer Waterproofing Membrane is dry when it turns a solid color, with no visible lighter color. Typically, drying time is 1 to 1-1/2 hours; depending on ambient conditions, drying time can be as much as 12 hours. After the second coat is applied and both coats are fully cured, the application area can be flood tested.

Coverage

TVIS Veneer Waterproofing Membrane as Waterproof Membrane (ANSI A118.10)

SQUARE FOOT COVERAGE PER 5 GALLONS (SQUARE METER PER 18.92 L)	
THICKNESS	COVERAGE
30 mil thickness when wet;	175 - 200 sq. ft.
47 mil thickness when dry	(16.2 - 18.5 M <sup>2</sup> )

Cleaning

Clean tools and hands with water before the material dries. Clean all spray equipment immediately after use.

PRECAUTIONS

Wear rubber gloves and eye protection while using this product. Avoid eye contact or prolonged contact with skin and wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Wash thoroughly after handling. Do not take internally. Keep out of the reach of children.

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
TVWM5	5 gallon (18.92 L)	Pail



**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](http://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](http://customTVIS.com).

**10. Filing Systems**

Additional product information is available from the manufacturer upon request.

**Related Products**

TVIS Premium PCL Stone Veneer Mortar

TVIS Premium Thin Veneer Bonding Mortar

TVIS Standard Thin Veneer Mortar Mix

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