

FACADESXi

WATERSHIELD JOINT MESH AND WATERSHIELD FLASHING TAPE

DESCRIPTION AND USAGE

WaterShield Joint Mesh and WaterShield Flashing Tape Self Adhered Membrane are parts of the WaterShield Family of Air and Water-Resistant Barrier Coatings and accessories, for use with FacadesXi Xterior EIFS, Stucco, Masonry Veneer and Cement board systems. Upgrade your system and your warranty to the single source WaterShield Advantage from FacadesXi.

WaterShield Joint Mesh is the FacadesXi reinforced non-woven polyester fabric used in conjunction with Xi-WaterShield for sheathing joints and gaps.

WaterShield Flashing Tape is a Self-Adhered peel and stick that does not require Primer on most substrates. The polyester fabric top allows for use either over or under the Xi-WaterShield Assembly.

PACKAGING / COVERAGE

WaterShield Joint Mesh

4" x 180'
6" x 180'
9" x 180'

WaterShield Flashing Membrane

4" x 75'
6" x 75'
9" x 75'
12" x 75'

FOR USE WITH WATERSHIELD ASSEMBLY

Water & Air Barrier transition products used in conjunction with the WaterShield Assembly for use behind all FacadesXi Systems and for use under any Cladding.

ALLOWABLE SUBSTRATES:

- ASTM C1177 type sheathings: DensGlass® sheathing, GlasRoc® sheathing Weather Defense® sheathing, eXP® sheathing
- ASTM C1325 Type A Exterior cement-board: PermaBase
- Poured concrete/unit masonry/brick
- Untreated Exposure I or exterior plywood sheathing (grade C-D or better)
- Untreated Exposure I OSB
- Gypsum sheathing (ASTM C79/ ASTM C1396)
- Wood Framing
- Steel Framing and Flashing
- Aluminum
- Others per FacadesXi

Additionally, WaterShield Flashing Tape adheres to foam insulation board, ICF, and EPDM.

FEATURES / BENEFITS

WATERSHIELD JOINT MESH

- Fast economical joint protection when combined with Xi-WaterShield
- For use under EIFS and any cladding
- Durable under air and wind pressure

WATERSHIELD FLASHING TAPE

- UV Stable for 30 days
- Bonds to most common building materials without priming.
- Adheres to substrates down to -20°F (-28°C)
- Can be applied to damp surfaces

SHELF LIFE / STORAGE

24 months—stored off the ground, unopened, between 40°F and 80°F, protected from moisture, and out of direct sunlight. Do not stack double pallets.



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Xi-WaterShield with WaterShield Joint Mesh Test Data

TEST	METHOD	CRITERIA	RESULTS
Durability (Transverse Load, Racking, Environmental Conditioning, and Water Penetration)	ASTM E2570 / ASTM E330, ASTM E72	No cracking observed through visual examination of the water-resistive barrier at substrate joints and at the flashing interface.	Pass
Freeze-Thaw	ASTM E2570	No cracking, checking, crazing, erosion, delamination or other deleterious effects	Pass
Tensile Bond	ASTM C 297	Minimum 15 psi (105 kPa)	Pass
Water Resistance	ASTM D 2247	No cracking, checking, crazing, erosion, delamination or other deleterious effects	Pass
Water Penetration	ASTM E 331	No visible water penetration at sheathing joints as viewed from back of the panel.	Pass
Weathering (Ultraviolet Light Exposure/ Wet/Dry Cycling/ Hydrostatic Pressure)	ASTM E2570 ASTM E2570AATCC 127	No cracking of the coating; no water penetration.	Pass

WaterShield Flashing Tape Test Data

TEST	METHOD	CRITERIA	RESULTS
Self Sealability	ASTM D1970 Section 7.9		Pass
Moisture Vapor Transmission	ASTM E96	Wet Cup Dry Cup	0.270 Perms 0.296 Perms
Cold Temperature Flexibility	ASTM C765-73	Grab	Passes
Tensile Strength	ASTM D5034		Warp 67 lbs / Weft 57 lbs
Tensile Elongation at Max load	ASTM D5034		Warp 16% / Weft 107%
Fungal Resistance	ASTM G21	No growth at 28 days	Pass

SURFACE PREPARATION / JOB CONDITION

Clean up surface area by removing dirt, dust, and debris prior to application

SHEATHED CONSTRUCTION

1. Sheathings/Substrates must be installed in accordance with manufacturer's and building code requirements. The area must be flat and free of fins or irregularities greater than ¼" in 10'.
2. Although WaterShield Flashing Tape may be applied on damp substrates, the Substrate must be dry.; Plywood and OSB moisture content must not exceed 19% before Xi-WaterShield is applied over the entire wall.

CMU/MASONRY/CONCRETE/STUCCO

1. Surface must be dry, and free from all form release agents, dirt, efflorescence, or anything that would prohibit the bond.
2. Mortar joints must be flat and cured for 3 days.
3. Concrete must be in place for a minimum of 3 days and alkalinity must be less than 10.

- Painted/loose/damaged substrates must have the paint removed by water or sand blasting and damage repaired so that 90% of the virgin substrate is exposed and adhesion is tested prior to installation. For more information, contact Facades Xi Technical Department.
- Window fins, metal flashings or other components: Test adhesion prior to application of any WaterShield product. If adhesion is weak, wipe with isopropyl alcohol, allow to dry and re-test.
- Pressure treated wood: Clean surface with Isopropyl Alcohol or solvent (as allowed) and allowed to flash-off before application. Test for adhesion.
- Raw gypsum board edges: When installing into soffits or around corners, it is best to use the factory edge of gypsum products. A primer will be required if applying to raw gypsum. Contact FXI Technical.
- Unsatisfactory conditions shall be reported to the general contractor and corrected before application of WaterShield products.

TEMPERATURE LIMITATIONS

- Xi-WaterShield/ Joint Mesh: Ambient and surface temperatures must be above 40°F (4.4°C) and below 120°F (49°C) during application and at least 72 hours after application. Also protect from precipitation.
- WaterShield Flashing Membrane: Above 0°F (-17°C) and below 125°F (51.6°C).

For surface preparation questions or further information, contact the FACADESXi Technical Team.

CLEAN UP

Dispose of waste in accordance with local requirements. Boxes, packaging materials and release liner can be recycled.



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APPLICATION

This application instruction must be used in conjunction with the Xi-WaterShield Product Datasheet. See System Details, WaterShield Details and Project Details for full installation.

WATERSHIELD MESH INSTALLATION

1. Follow Full Instructions on Xi-WaterShield Product Datasheet
2. Apply Xi-WaterShield on either side of the joint, edge, or gap so that approximately 2 inches of material are on either side.
3. While the material is still wet, embed the WaterShield Joint Mesh centered over the area to be treated and embed with a trowel into place, completely covering it so that there are no holes or gaps. A roller or brush may be necessary to get complete coverage.
4. Allow to dry for a minimum of 2 hours and/or until dry to the touch before applying WaterShield to the field of the wall.

APPLICATION OVER FLASHINGS, FINS, CASING BEADS, AND PENETRATIONS

After all flashings, window fins, and penetrations are installed, install WaterShield transition treatment per project details to create a waterproof connection and positive drainage.

WATERSHIELD FLASHING MEMBRANE INSTALLATION

1. Cut the Membrane to length, remove a small portion of the release liner and apply to the substrate, centering over joint or gap.
2. Continue to remove the release liner as you firmly roll into place using a “J” roller or hand roller to smooth out any wrinkles, air bubbles or creases.
3. End laps should be a minimum 6” and horizontal laps should create positive drainage. All laps should be firmly rolled to ensure adequate adhesion.

GENERAL APPLICATION NOTES

TRANSITION BETWEEN WATER RESISTIVE BARRIERS

When there is a transition between WaterShield and Non-FACADESXi materials, consult FACADESXi Technical Services. The adhesion between products is not always known and testing may be necessary.

EIFS

Dirt or other contaminants that would prevent adhesion of the insulation board must be removed and cleaned. If Xi-WaterShield/Flashing Membrane is left exposed for more than 30 days, the surface must be cleaned, and adhesion checked. Before installation of the cladding, ensure that the WaterShield has not been damaged and that it does not have any holes or gaps.

STUCCO/MASONRY VENEER CLADDINGS

A slip sheet must be installed over the WaterShield to prevent adhesion of the plaster to the WaterShield. All screws and attachments must be attached to the framing. If a fastener is accidentally installed and does not penetrate a framing member, leave the fastener in place and seal with WaterShield transition materials.

CAUTIONS / LIMITATIONS

- Use only on surfaces that are sound, dry, clean, unpainted, and free from any residue that may affect the ability of the FACADESXi Products to bond.
- Xi-WaterShield is UV-stable, however; it should not be left exposed for more than 12 months. The surface must be examined before installing any cladding and when using EIFS, if exposed more than 30 days, the surface must be cleaned and dry.
- WaterShield Flashing Membrane should not be exposed more than 30 days. Consult the FacadesXi Technical Team if this occurs.
- Do not install over wet sealants or adhesives.
- Not for use as through-wall flashing.
- When installing fasteners through any WaterShield product, fasteners must be installed into framing members.
- A slip sheet is required over Xi-WaterShield when the cladding is a cement based stucco or mortar bed to prevent adhesion.
- Use clean materials and tools to prevent contamination of the material.
- Not for use in a negative pressure waterproofing, or in immersion.
- Wear protective eye-wear and clothing
- Do not apply WaterShield Flashing membrane in contact with PVC or TPO roofing membranes.
- Do not adhere to skin.

CONTACT FACADESXi TECHNICAL FOR SPECIFIC INSTRUCTIONS.

