

# FACADESXi Xi-WATERSHIELD

## DESCRIPTION AND USAGE

Introducing 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 is fluid-applied by spraying or rolling under any cladding, creating a monolithic water-resistant and air barrier. WaterShield is durable, will not be ripped or torn during environmental conditions and is UV Stable.

## PACKAGING / COVERAGE

### 60 lb (27.2 kg) Pails

The estimated coverage area per pail is based on the condition of the substrate and method of application and number of coats:

Substrate	Per Pail	Minimum Wet Mil Thickness	Dried Film Thickness
ASTM C1177 Glass Mat Gypsum	450-500 ft <sup>2</sup> (42-46 m <sup>2</sup> )	10 - 12 mils	6 - 7 mils
Plywood / OSB One Coat	400-500 ft <sup>2</sup> (37-46 m <sup>2</sup> )	10 - 12 mils	6 - 7 mils
Plywood / OSB Two Coat	300-400 ft <sup>2</sup> (28-37 m <sup>2</sup> )	12-16 mils	7-10 mils
CMU	100-300 ft <sup>2</sup> (9.3-28 m <sup>2</sup> )	12-30 wet mils per coat	7 - 19 mils per coat

- Wet mil thickness should be ensured and measured with a wet film gage.
- Coverages are approximate and will vary depending on application methods and environmental/surface conditions.
- OSB, Plywood and CMU may require additional material to reach a pin free and monolithic required mil thickness.

A mockup using the exact materials for the project should be used to determine coverage.

## FOR USE WITH ALL FACADESXi SYSTEMS

Water & Air Barrier Coating used in conjunction with the WaterShield Accessory Products for all FACADESXi Systems and for use under any Cladding.

Required Water & Air Barrier Coating with:

- WaterShield Xterior Insulation System
- FacadesOne WaterShield System
- FacadesThree WaterShield System
- FacadesXi Elite Masonry Veneer System

Optional WaterShield Upgrade with:

- FacadesXi Stucco Systems
- Cement Board Systems
- Code compliant Claddings
- Masonry Veneer Assemblies

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)

## FEATURES / BENEFITS

- Code compliant for use under EIFS and any cladding
- Vapor Permeable
- Low VOC
- Durable under air and wind pressures
- Easy / Fast installation
- Single product use with reinforcing fabric and joints and connections.

## SHELF LIFE

12 months - stored off the ground, unopened, protected from moisture, extreme heat 90°F (32°C), and direct sunlight.



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## MIXING

- Mixing and preparation equipment should be cleaned before you begin.
- Thoroughly mix with a rust-free paddle until the entire product is consistent throughout the pail. Avoid air bubbles while mixing.

**NOTES:** Only FACADESXi approved additives may be added to this product.

**Do not Add Water or Cement.  
Keep the container closed when not in use.**

## 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.
- WaterShield is UV Stable; however it should not be left exposed more than 6 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.
- When installing fasteners through WaterShield, ensure the fasteners attach into framing members.
- A slip sheet is required when the cladding is a cement based stucco or mortar bed to prevent adhesion.
- Seal all penetrations at the WaterShield surface.
- Cold or humid weather will extend drying time.
- Application in direct sunlight will reduce open time significantly.
- Use clean materials and tools to prevent contamination of the material.
- Not for use in a negative pressure water proofing, or in immersion.
- Not for direct use over wood substrates.
- Wear protective eye-wear and clothing
- Always use proper safety equipment when handling this product. Use a particle mask when mixing and/or applying.
- Provide protection from excessive heat or cold. 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.

## SURFACE PREPARATION / JOB CONDITION

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

### FRAMED CONSTRUCTION

1. Sheathings/Substrates must be installed in accordance with manufacturer's and building code requirements; flat, free of fins or irregularities greater than ¼" in 10'.
2. Substrate must be dry; Plywood and OSB moisture content must not exceed 19%.
3. Treat gaps between sheathings, sheathing corners, terminations and at dissimilar materials with the appropriate WaterShield Joint Treatment.

### CMU/MASONRY/STUCCO

1. Surface must be dry, and free from all form release agents, dirt, efflorescence, or anything that would prohibit the bond.
  2. Skim uneven surfaces with Xi-VersaBase or Xi-Base Coat and allowed to dry.
  3. Mortar joints must be flat and cured for 3 days.
  4. It may be easier to create a monolithic WaterShield barrier by skimming CMU with a base coat and allowing to dry first.
  5. Concrete alkalinity must be less than 10.
- Painted/loose/damaged substrates must have the paint removed by water/sand blasting and damage repaired so that 90% of the virgin substrate is exposed and adhesion tested prior to installation, Contact FACADESXi 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 and Test for Adhesion
  - Raw gypsum board edges: When installing WaterShield into soffits or around corners, it is best to use the factory edge of gypsum products, WaterShield (and most products) will not adhere to raw gypsum.
  - Unsatisfactory conditions shall be reported to the general contractor and corrected before application of WaterShield.

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

## CLEAN UP

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.



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## APPLICATION

See System Details, WaterShield Details and Project Details for full installation. Protect surrounding areas during application. Once WaterShield is dry it can only be removed mechanically.

### ACCESSORY PRODUCTS

- WaterShield Joint Mesh: Fiberglass Mesh bonded to a non-woven textile when embedded in WaterShield can span gaps and joints up to ¼".
- WaterShield Flashing Tape: Primer-Free peel and stick Tape designed for use with stucco and EIFS systems. The polyester fabric top layer provides an excellent bonding surface for cementitious and synthetic stucco coatings.
- Xi-FlashFill: Gunnable, or Trowelable waterproofing Sealant applied at 12 mils.

### GAP/JOINT TREATMENTS

- Fasteners: Treat fastener heads with a spot of WaterShield or Xi-FlashFill.
- All gaps in the substrate and transition onto dissimilar materials including sheathing joints, inside and outside corners, gaps, penetration materials, substrate transitions, dissimilar material transitions (less than ¼" wide): Treat with WaterShield/WaterShield Mesh or Xi-FlashFill Application.
- All gaps as listed above and expansion joints (greater than ¼"): Treat with WaterShield Flashing Tape or Xi-FlashFill Liquid Sealant Application. See WaterShield Flashing Tape and Xi-FlashFill product datasheets for installation instructions.

### WATERSHIELD MESH INSTALLATION

1. Apply WaterShield on either side of the joint, edge, or gap so that approximately 2 inches of material are on either side.
2. While the material is still wet, embed the WaterShield Joint Mesh centered over the gap or joint to be treated and embed with trowel into place completely covering it so that there are no holes or gaps. A roller/brush may be necessary to get complete coverage.
3. 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, PENETRATIONS

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

### WATERSHIELD FIELD APPLICATION

Apply WaterShield in an even application at a rate listed above per substrate. The wet mil will be approximately 10-12 wet mils.

### ROLLER

Pre-wet and remove excess water for synthetic roller pads.

Sprayer: Test equipment for exact tip and spray rate prior to application, the material should spray at approximate 1 gallon per minute.

### OSB/PLYWOOD

Plywood/OSB surface may create imperfections in the WaterShield. The WaterShield must be re-applied in any areas that are not completely covered.

### CMU

CMU will require more WaterShield than other substrates or it may be skimmed out with Xi-Base or Xi-VersaBase. Apply 2 coats, allowing the first coat to fully dry. It may require back rolling with a ¾" nap roller for complete coverage without pinholes.

## 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 WaterShield 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 does not have any holes or gaps.

### STUCCO/MASONRY VENEER CLADDINGS

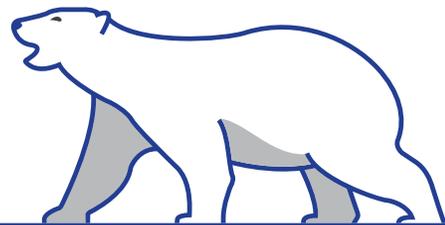
A slip sheet must be installed over the WaterShield to prevent adhesion of the plaster to the WaterShield.

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.

### METAL PANEL CLADDING

The WaterShield service temperature maximum is 180°F. If the metal panel will create a temperature greater than that, an alternative material should be chosen.

Protect the wall assembly during installation from water intrusion until the exterior wall is in place.



CONTACT FACADESXi TECHNICAL FOR SPECIFIC INSTRUCTIONS.



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## WARNINGS

Use of this product can expose you to Crystalline Silica, a chemical that has been known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information: <https://P65Warnings.ca.gov>

## INHALATION

This product is considered an irritant if proper precautions aren't followed. Use a NIOSH approved respirator mask and adequate ventilation when using the product. Avoid overexposure. Open windows and doors to confined areas during the application and drying process. Ensure fresh airflow is available. Leave the area of application immediately if you experience watery eyes, dizziness, or a headache.

## SKIN CONTACT

Do not get product in your eyes or on your skin. Wash hands thoroughly after use.

## EYE CONTACT

Rinse eyes thoroughly with water for several minutes. Remove contact lenses then continue to rinse.

## DO NOT TAKE INTERNALLY

Immediately contact the Poison Control Center if swallowed. Store product in its original container sealed tightly after use.

## EXPOSURE TO LEAD

Scraping sand or old paint chips may result in toxic lead exposure. Contact the National Lead Information Hotline at 1-800-424-LEAD or head over to <https://epa.gov/lead> for more information.

## PLEASE NOTE

The most current Safety Data Sheet and Product Data Sheet can be found on our website for more information on product handling.

TEST	TEST METHOD	TEST CRITERIA	TEST RESULTS
Water-resistive barrier coatings used under EIFS and All Claddings	ASTM E2570	International Building Code International Residential Code	Meets all performance requirements
Air Permeance	ASTM E 2178	< 0.02 L/s m <sup>2</sup> -s @ 75 Pa (< 0.04 cfm/ft <sup>2</sup> @ 1.57 psf)	Pass
Air Barrier Assembly	ASTM E 2357	< 0.2 L/s m <sup>2</sup> @ 75 Pa (< 0.04 cfm/ft <sup>2</sup> @ 1.57 psf)	Pass
Durability: Structural / Racking/ Restrained Environmental Conditioning / Water Penetration	ASTM E1233 ASTM E72 ASTM E331	No water penetration after 15 min @ 137 Pa (2.86 psf)	Pass
Freeze-Thaw	ASTM E2485 (Method B)	ASTM E2570/AC 212 No sign of deleterious effects after 10 cycles	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood, CMU
Surface Burning	ASTM E84	ASTM E2570/AC 212 Flame Spread < 25 Smoke Development < 450	Meets Class A: Flame spread =15 Smoke developed = 95
Tensile Bond	ASTM C297	ASTM E2570/AC 212 Minimum 103 kPa (15 psi)	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood, CMU; PVC and galvanized flashing
Water Resistance	ASTM D2247	ASTM E2570/AC 212 No deleterious effects after a 14-day exposure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Water Vapor Transmission	ASTM E96	ASTM E2570/AC 212, Report Value	22 Perms
Weathering: UV Light Exposure, Accelerated Aging, Hydrostatic Pressure Test	ICC-ES AC-212 AATCC 127	ASTM E2570/AC 212 No cracking or bond failure to the substrate. No water penetration after 21.7 in (550 mm) water for 5 hours	Pass

## SAFETY

KEEP OUT OF REACH OF CHILDREN.  
FOR PROFESSIONAL USE ONLY.  
DO NOT ALLOW PRODUCT TO FREEZE.  
VOC < 10 grams per liter.

The instructions for use and application and warnings have been prepared in good faith based on the information available at the time of publication.

All instructions are intended to provide product users with the proper guidelines for use and application under normal working and environmental conditions. Because each project and user is different, FACADESXi cannot be held responsible for any consequences of variations in conditions or for unforeseen conditions when using this product.

For the most up to date information go to [www.facadesxi.com](http://www.facadesxi.com)

