

# FACADESXi MASONRY VENEER MORTAR

## DESCRIPTION AND USAGE

FACADESXi-Masonry Veneer Mortar is a dry polymer modified cementitious mortar complying with ANSI 118.15 / ANSI 118.4 and designed specifically for the FACADESXi-Masonry Veneer Wall Systems. When mixed on site with water, this product adheres thin stone, manufactured stone, brick and tile to approved substrates with increased bond strength, sag resistance, freeze thaw resistance when compared to standard Mortars.

## PACKAGING / COVERAGE

### 50 lb Bags (22.6 kg)

Approximate coverage based on the method of application:

#### Notched Trowels

1/4" x 3/8" (6 mm x 9 mm) : 50 - 60 ft<sup>2</sup> (4.6 - 5.6 m<sup>2</sup>)

1/2" x 1/2" (12 mm x 12 mm): 40 - 45 ft<sup>2</sup> (3.7 - 4.2 m<sup>2</sup>)

MVM Method (wall and veneer): 25 - 30 ft<sup>2</sup> (2.3 - 2.8 m<sup>2</sup>)

Coverages are approximate and will vary depending on application methods and environmental/surface conditions.

Other factors that can affect coverage include weather, surface temperature, mixing and application method, wall type and porosity, amount of water added and mixing methods. Please verify in the field by using the same variables that will be used at the actual project site.

## FOR USE WITH FACADESXi MASONRY VENEER SYSTEMS

Veneer Mortar for:

- FXI Masonry Veneer Assembly
- FXI Masonry Veneer Cement Board Assembly
- FXI Masonry Veneer WaterShield Assembly
- Exterior Insulation Masonry Veneer System

Allowable Substrates:

- FacadesOne One Coat Stucco
- FacadesThree Scratch & Brown
- Mortar Bed per Building Code
- ASTM C1325 Type A Exterior Cement Board
- Poured concrete/Unit Masonry/Brick

For Interior Installation Substrates Contact FXI Technical Services

Veneer stone, brick, tile and other veneers must comply with the limits of the building code and applicable specifications including limited size and weight.

## FEATURES / BENEFITS

- Non-Sagging
- Dry, bagged product requiring only water
- Exceeds industry and code standards
- Complies with ANSI 118.15

## 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

Read the complete instructions prior to mixing.

1. Place 1.5-1.75 gallons of clean, cool water into a clean mixing container. Warm water will accelerate the set.
2. Use a heavy-duty ½ inch rust-free paddle drill at 400-500 rpm and slowly add the 50 pound bag of FACADESXi Masonry Veneer Mortar to the water, mixing to a thick creamy consistency. Small amounts of water may be added during mixing.
3. Allow the Masonry Veneer Mortar to sit and slake for 5-10 minutes and then remix it.
4. Use the mixture immediately after mixing.

## NOTES

Do not add more water or other admixtures not approved by FXI

Working time is approximately 2 hr, depending upon temperature - do not mix more than can be used during this time.

## SURFACE PREPARATION / JOB CONDITION

Temperature and substrate must be 40°F and above at time of installation and for 72 hours after installation. Avoid application in direct sunlight or high temperatures.

Substrates must be structurally sound, unpainted and clear of dirt, dust, chalk, mildew, algae, foreign materials, etc.

For exact wall specifications, substrate requirements, deflection limits and surface flatness see applicable FACADESXi Masonry Veneer Mortar System specifications

## FACADESONE/FACADESTHREE/OTHER STUCCO/MORTAR BED APPLICATIONS.

1. Install in accordance with the applicable building code/Manufacturers product data, as applicable.
2. After application of the portland cement plaster base coat/brown coat; rod, darby or trowel it to produce a plane wall.
3. Portland cement plaster must be moist cured and dried in accordance with the stucco product application instructions or per ASTM C926, if applicable

## CONCRETE/MASONRY

1. Any new concrete surfaces or masonry work must cure a minimum of 28 days before the product is applied.
2. Form-release agents: Dirt, efflorescence frost, and any bond breakers must be removed prior to application.
3. Patch and repair any non-uniform areas to create a smooth surface and allow to dry.

## CEMENT BOARD

Install Cement board and treat joints in accordance with FXI Masonry Veneer Cement Board specifications.

Control Joints: Install control joints in the cement board per the manufacturer.

Expansion Joints: Install in accordance with the veneer manufacturer.

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



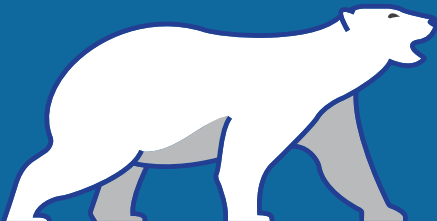
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## CAUTIONS / LIMITATIONS

- See Full System components on the corresponding System Bulletin, specifications and details.
- When installing directly over a water resistive barrier coating, it must be as specified by FXI.
- Wall Deflection limit for a lathed /mortar wall is generally L/360, see specifications for more information.
- For Resin backed tiles/stones, contact the FacadesXi Technical Department before installation.
- Efflorescence is a natural occurrence when using cement based products subject to exterior or wet environments.
- Vertical construction only and above grade walls on framed construction only.
- 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.

## CLEAN UP

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



CONTACT FACADESXi TECHNICAL FOR SPECIFIC INSTRUCTIONS.

## APPLICATION

Complete System installation instructions can be found in the applicable FACADESXi Specifications.

**FXI Masonry Veneer Cement Board Assembly, FXI Masonry Veneer Assembly, FXI Elite Masonry Veneer System, Code Compliant Mortar Bed, Cement Board (treated Joints), Concrete, CMU, Brick.**

1. Prior to application, dampen the surface with clean water.
2. Masonry Veneer Mortar can either be applied to the veneer (Start with step 4) itself or to the substrate and the veneer (Start with Step 3), as long as there is 100% coverage between the veneer and the substrate.
3. Apply a thin layer of Masonry Veneer Mortar onto the substrate, approximately  $\frac{1}{8}$ " thick. Only install material that will be covered within 15 minutes.
4. Apply a layer of Masonry Veneer Mortar using the appropriate notched trowel onto the back side of the stone, tile, or brick.
5. Press the veneer into the wet mortar on the wall and slide it into its desired location - sliding back and forth to set the veneer.
6. Flatten ribbons of adhesive to achieve 100% coverage and contact.

### Installation Notes.

- The result should be 100% coverage between the substrate and the veneer unit.
- Every 100 square feet Minimum: Check adhesion and coverage of a sample veneer.
- There should be some mortar that squeezes out during installation to show a full coverage, clean excess mortar out between veneers.
- Do not grout until it can be done without moving the veneer units.
- Any veneers that are disturbed before completely setting, should be removed, mortar removed from the wall and the veneer and then reinstalled.

Exterior Insulation Masonry Veneer System: See System Specification for installation.

Protect from rain and freezing, until cured and at least 24 hours and from Freezing for 72 hours, longer in cold or humid climates before application of primer/finish coat.



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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.

## TESTING

TEST	METHOD	PASS/FAIL CRITERIA	RESULTS
Bond Strength	ASTM C482	50 psi	356 psi
Bond Strength after Freeze/Thaw	ASTM C482 100 Cycles ASTM C666 B	NA	337 psi No signs of deterioration after freeze/thaw
Compressive Strength	ASTM C109	NA	28 Days: 1360 psi
Sag Resistance	ANSI A118.15, Section 6.0	<.02 inch	Pass: 0.00 inch
Shear Strength to Porcelain Mosaic Tile	ANSI A118.15, Section 7.2	7 Day: 300 psi 7 Day Water Immersion: 200psi 28 Day Heat Aging: 400 psi	7 Day: 319 psi 7 Day Water Immersion: 225 psi 28 Day Heat Aging: 412 psi

## 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)

