

# FACADESXi FACADESTHREE CONCENTRATE

## DESCRIPTION AND USAGE

FacadesThree Concentrate is a pre-mixed ASTM C926 code compliant stucco base coat consisting of portland cement, fibers, and additives designed specifically for the FACADESXi Stucco Wall Systems and as a traditional scratch and brown. Mixed on site with sand and water.

## PACKAGING / COVERAGE

### 80 lb (36 kg) Bags

Sand quantity will affect coverage, but the approximate coverage per thickness per bag will be as follows:

$\frac{3}{8}$ " (9.5 mm) = 75-90 ft<sup>2</sup> (7-8.4 m<sup>2</sup>)  
 $\frac{1}{2}$ " (12.7 mm) = 60-72 ft<sup>2</sup> (5.6-6.7 m<sup>2</sup>)  
 $\frac{3}{4}$ " (19.0 mm) = 37-45 ft<sup>2</sup> (3.5-4.2 m<sup>2</sup>)

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

## FEATURES / BENEFITS

- ASTM C926 compliant
- Warrantable Assemblies
- Spray and hand applications
- Less waste than field mixes
- Factory prepared stucco base for consistent field quality control
- Impact and puncture resistant

## FOR USE WITH FACADESTHREE STUCCO WALL ASSEMBLIES

- FacadesThree Stucco Assemblies: scratch & brown stucco base complying with ASTM C926
- FACADESXi Stucco Assembly Substrates/Sheathings:
  - With code compliant lath, water resistive barrier*
  - ASTM C1177 glass mat faced sheathing
  - ASTM C79/C1396 exterior gypsum sheathing
  - ASTM C1325 Type A Exterior cement-board
  - Exposure I or exterior plywood sheathing (grade C-D or better)
  - Exposure I OSB
  - Poured concrete/unit masonry/brick
  - Continuous Insulation

### Direct Application

- Concrete
  - Concrete masonry (CMU)
  - Poured concrete
  - Brick
- Non-combustible Assemblies & Fire resistant assemblies.

## CODE COMPLIANCE / MATERIAL STANDARDS

- ASTM C926
- Lime: ASTM C206
- Fibers: ASTM C1116
- Portland Cement: ASTM C150

## 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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## SURFACE PREPARATION / JOB CONDITION

For specific stucco assembly Installation instructions, see the Applicable Xi-Stucco Specifications.

Temperature and Substrate must be above 40°F (4°C) and below 120°F (4°C) at time of installation and for 24 hours after installation. Avoid direct sunlight.

## LATHED INSTALLATION

Install water-resistant barrier and flashing per specifications to ensure that the surface will shed water. Stucco will not provide a barrier that is water resistant. Install code compliant lath per ASTM C1063.

## DIRECT APPLICATION

The surface must be clean and dry, unpainted and without defects. In addition, the surface must not have any residue which could interfere with the bonding. Frost, snow and ice will prohibit the bonding process, so wait until moisture evaporates and temperatures warm.

The surface must have adequate roughness and suction on the surface so the product will bond.

Before applying this product, dampen concrete and masonry substrates as applicable.

Note: When applying to non-standard surfaces such as extremely dense or extremely smooth concrete, please contact FACADESXi technical support.



CONTACT FACADESXi TECHNICAL FOR SPECIFIC INSTRUCTIONS.

## APPLICATION

For specific stucco assembly Installation instructions, see the Applicable Xi-Stucco Specifications. Install FacadesThree Concentrate in compliance with the International Building Code/International Residential Code and ASTM C926.

**Scratch Coat:** Apply scratch coat with sufficient pressure and sufficient material for a full  $\frac{3}{8}$ " –  $\frac{1}{2}$ " thickness to key into and embed and completely cover the lath. Moist cure for 48 hours in accordance with the International Building Code. Start moist fogging after initial set of 1–2 hours.

**Brown Coat:** Apply brown coat with sufficient pressure and material to ensure physical bond with the scratch coat and to a  $\frac{3}{4}$ " thickness. Use a rod or straight edge to bring the surface to a true, even plane. Float the brown coat uniformly to prepare for the next step, the finish coat application. Moist cure for 48 hours in accordance with the International Building Code. Start fogging after initial set of 1–2 hours.

**Direct to CMU/Concrete:** Apply stucco with sufficient pressure and sufficient material for a minimum  $\frac{1}{2}$ " thickness. If installing in 3 coat system, follow application above for Scratch and brown coats.

**Double Back Method:** The first and second coats are applied and cured as one system. Application of the second brown coat is applied as soon as the first coat is rigid enough to accept it without damage to the first coat. Moist cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day.

**Note:** When FACADESXi Hacienda, portland cement finish coat is going to be applied, the surface must be open, not smoothed by floating.

## MOIST CURING

Moisture curing is necessary due to evaporation / absorption and will improve the overall strength and durability of the stucco basecoat.

Make sure to keep stucco basecoat moist by fogging walls with water after the initial hardening and for the duration of the required time to provide strength and prepare for the pressure of finish coat application. Insufficient moisture application after the basecoat is in place can cause problems such as volume loss stresses and cracking. (See Xi-Stucco specifications for specific moist curing times per assembly)

- Be sure to stop application only at junctions of wall planes, openings or control joints to avoid cold joints.
- Allow FacadesThree Concentrate to dry thoroughly prior to applying finishes.



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## MIXING

1. Begin with approximately 60 pounds of sand and 3 gallons of clean, cool, water per bag. Warm water will accelerate the set.
2. Add the FacadesThree Concentrate to the water and sand, then add an additional 1-3 gallons of water and enough sand to equal a total amount of 200-240 lb (91-109 kg). Total amount of sand will equal 2 ½ -3 cubic feet. Use sand that is graded within the following limits (sample and test per ASTM C897 or C144 requirements).

Retained by U.S. Standards Sieve	Percent Weight	Retained By +/- 2%
No. 4	---	0
No. 8	0	10
No. 18	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

3. Allow the material to sit and slake for 5-10 minutes and then remix it. Small amounts of water may be added. Do not re-temper.
4. Use immediately after mixing.

## FACADESXi-ADMIX AND BONDING AGENT

For reduced efflorescence, shrinkage and cracking and for increased water resistance, use up to 1 gallon (3.8 liter) per bag of FacadesThree Concentrate:

1. After the dry components and most of the water have been mixed, add Xi-Admix and Bonding Agent.
  2. Do not overmix or the material will contain too much air which will weaken it.
  3. Product may be only be re-tempered within 20 minutes of adding Xi-Admix and Bonding Agent.
- Always use clean equipment to mix product.
  - Do not add anything additional to this product that has not been pre-approved by FACADESXi.

## CAUTIONS / LIMITATIONS

- Ambient and surface temperature must remain above 40°F (4°C) during and for 24-hours after set has occurred.
- Efflorescence is a natural occurrence when using cement-based products subject to exterior or wet environments and is not a defect of the product.
- Cracking will occur in portland cement stucco, as is with any Portland cement-based product, and is not a defect of the product. Cracking can be minimized by following best practices including proper installation of lath, proper use of control and expansion joints, proper sand selection, proper proportioning of stucco mix, avoiding the use of excess water, moist curing of the stucco after it has been applied, and proper sequencing of construction to avoid stresses in the installed stucco.
- For use on vertical above grade walls and ceilings only.
- Moist curing must be provided per the Xi-Stucco specifications.
- Where snow may occur, increase the distance required between grade and the stucco and increase the slope requirement of the Stucco and Foam Shapes.
- Maintenance is Required with periodic cleaning, repair of cracks and impact damage, if they occur, and/or recoating to enhance appearance of weathered finish.
- Dark colors show more efflorescence and imperfection in the stucco base coat compared to light colors. With Foam Shapes, select a color with a light reflectance value (LRV) of 20 percent or higher. EPS has a service temperature limitation of approximately 160°F (71°C).
- Maintenance is Required with periodic cleaning, repair of cracks and impact damage, if they occur, and/or recoating to enhance appearance of weathered finish.

## CLEAN UP

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



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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.

## 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)

