



# XS BACKER



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<http://www.surecretedesign.com/xs-backer/>



# XS BACKER

## DESCRIPTION

**XS Backer** is a dual component cement based bag mix that is unmatched in fiber loading. It is not a "stand alone" mix, but is designed to be used in conjunction with **XS Face** or **XS Precast**. **XS Backer** greatly reduces the materials and labor required to construct traditional precast concrete. Reinforcement steel is eliminated, thinner precast pieces are routine, quicker production times are accomplished, and no "B" mold is required. A stronger, denser and more flexible cementitious composite is created by combining cutting-edge technology with modern fiber advancements. With a wide range of coloring and texture selections along with the manipulation of water demand and placement, design considerations are nearly limitless. **XS Backer** when used in conjunction with **XS Face** or **XS Precast** produces concrete countertops, fireplace mantles and facades, shower surrounds, wall panels, furniture and many other architectural elements. **XS Backer** is the perfect medium for residential, commercial, and industrial applications.

## TEMPERATURE/DRY/CURE

Fabrication of **XS Backer** should be inside a shop. Casting should take place when shop temperature and all materials are maintained between 50°F (10°C) and 90°F (32°C) throughout all fabrication and curing. Product will dry and cure slower at cool temperatures and conversely, faster at warm temperatures. Full cure is reached at approximately 30 days, like concrete. Although rare, at high altitudes and dry climates, some pieces may require covering with plastic to slow the cure and avoid curling.

## MIXING

1. Utilize a handheld concrete mixer with a helical (spiral) mixer blade, such as an Eibenstock model #EHR 20R or similar.
2. Thoroughly mix **XS Precast Modifier**.
3. Add 1 gal (3.8 L) **XS Precast Modifier** to a clean 5 gal (18.9 L) pail or similar mixing vessel
4. Add **Color Packs** to **XS Precast Modifier** (if desired) and mix.
5. While mixing add approximately ¾ of the **XS Backer** bag.
6. Continue mixing until all dry powder is incorporated.
7. Scrape sides of pail with margin trowel to prevent dry pockets from forming.
8. Add 16 oz (0.5 L) water, mix into a looser consistency.
9. Add remaining **XS Backer** and continue to mix for 2 – 3 minutes.
10. Up to an additional 24 oz (0.7 L) water may be added for a looser consistency as desired.

## APPLICATION

**XS Backer** is designed to cover both vertical and horizontal surfaces via spraying for mass production and hand packing for smaller projects. To achieve ultimate bond, it is best to apply **XS Backer** when **XS Face** or **XS Precast** is still damp to the touch or within 6 hours of their placement. After placing **XS Backer**, the sample must be a minimum of ¾" total thickness. For pieces requiring excessive loading, further strength may be achieved through the addition of basalt rods and / or fiberglass scrim.



## PACKAGING

50 lb (22.7 kg) bag  
0.5 lb (227 g) **Color Pack** (2 required for an approximate match of 30 standard colors. Variations in shading expected with cement based products.)

## MIXING RATIO

1 gal (3.8 L) **XS Precast Modifier** to 1 – 50 lb (22.7 kg) bag of **XS Backer**  
+ up to 40 oz. (1.1 L) water

## COVERAGE

1 - 50 lb (22.7 kg) bag of **XS Backer** =  
approx. 9.8 ft<sup>2</sup> @ ½" (0.9 m<sup>2</sup> @ 12.7 mm)  
7.2 ft<sup>2</sup> @ ¾" (0.64 m<sup>2</sup> @ 19 mm)  
OR 0.43 ft<sup>3</sup> (0.01 m<sup>3</sup>)

## DENSITY

120 lb/ft<sup>3</sup> (1,906 kg/m<sup>3</sup>)

## COMPRESSIVE STRENGTH ASTM C-109-08

3 day - 8,560 PSI (59,019 kPa)  
7 day - 9,910 PSI (68,327 kPa)  
28 day - 10,030 PSI (69,154 kPa)

## FLEXURAL STRENGTH ASTM C-348-08

3 day - 1,080 PSI (5,654 kPa)  
7 day - 1,065 PSI (5,757 kPa)  
28 day - 1,180 PSI (4,551 kPa)

## TENSILE STRENGTH ASTM C190-85

3 day - 570 PSI (2,792 kPa)  
7 day - 765 PSI (3,378 kPa)  
28 day - 755 PSI (3,482 kPa)

## SHELF LIFE

Under normal conditions: **XS Backer** bag mix and **XS Precast Modifier** when the container and packaging are kept dry and moisture free, out of direct sunlight, the shelf life of an unopened product is (12) months from the date of purchase. Additionally **XS Precast Modifier** should be protected from freezing. Storage for both products must be under roof and off the floor. Rotate inventory to maintain product that is within limits.

## DEMOLD

In warm weather 4-6 hours after placing **XS Backer**, it may be appropriate to de-mold. Cool temperature or pieces with extreme texture will require overnight drying. **XS Backer** should not be left in the mold past a 24 hour period, as curling of the piece is likely. A freshly de-molded sample should be handled similar to granite or natural stone, and should be well supported above the work surface to allow the free flow of air around the piece.

## CLEANING

*XS Backer* is not a stand-alone product, and is always used in conjunction with *XS Precast* or *XS Face*. For specific directions on cleaning refer to the TDS of *SCR*.

## SLURRY

*XS Backer* is not a stand-alone product, and is always used in conjunction with *XS Precast* or *XS Face*. For addressing pinholes and voids refer to the TDS of *XS Slurry*.

## GRIND/POLISH

*XS Backer* may be ground with 50 grit diamond pad. *XS Backer* is not a stand-alone product, and is always used in conjunction with *XS Precast* or *XS Face*. For specific directions on polishing refer to the appropriate TDS.

## STAINING

*XS Backer* is not a stand-alone product, and is always used in conjunction with *XS Precast* or *XS Face*. For specific directions on staining refer to the TDS of *Eco-Stain*.

## SEALING

*XS Backer* is not a stand-alone product, and is always used in conjunction with *XS Precast* or *XS Face*. For specific directions on sealing refer to the appropriate TDS.

## SEAMING/ADHESION

100% silicone caulk provides an excellent seaming and adhesive fastening material, as it allows for movement of the precast piece. *XS Backer* like any other concrete will undergo slight dimensional variations based upon its environment (e.g. shrinkage or expansion). Do not use caulking or adhesive that could "bleed" through the finished surface, such as petroleum based products. Large pieces and under-mount sinks will require mechanical fastening.

## SUITABILITY SAMPLE

Always prepare an adequate number of test samples for suitability for products' intended use.

## CLEAN-UP

Before *XS Backer* dries; spills and tools can be cleaned up with water.

## DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

## LIMITATIONS

For use by trained professionals that have read the complete TDS and SDS.

## WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. *SureCrete Design Products* shall not be liable for cost of labor or direct and/or incidental consequential damages.

## CAUTIONS

**KEEP OUT OF REACH OF CHILDREN. Inhalation:** Avoid prolonged breathing of airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance if threshold limit values are unsafe. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

## SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

- [xtreme-series-xs-backer-sds.pdf](#)
- [xtreme-series-xs-modifier-sds.pdf](#)