

### PRODUCT DESCRIPTION

Stoncrete EFX is a four-component, troweled, epoxy mortar system. The system base consists of a pigmented epoxy resin, amine-curing agent, graded aggregates and a larger decorative aggregate to create unique and stylish designs. Stoncrete EFX can be applied at thickness ranging from 3/16"/4.5mm to 1/4"/6 mm depending on application requirements. Stoncrete EFX cures to an extremely hard, impact-resistant mortar which exhibits excellent abrasion, wear and chemical resistance and can be used anywhere an epoxy mortar is required.

### SYSTEM OPTIONS

#### Topcoat

Stoncrete EFX must be sealed with a urethane top coat. There are multiple coatings options available depending on the desired sheen. For a matte finish, Stonseal CF7 is recommended.

For a satin finish, Stonseal SK6-SF is recommended.

For a lightly textured, semi-gloss finish, Stonseal SK6-GT is recommended.

#### Waterproofing

Where the total system must be waterproof, use of Stonhard's Stonproof ME7 membrane system is required, with strict adherence to application instructions.

#### Cove Base

To provide for an integral seal at the joint between the floor and the wall, cove bases in varying heights are available. Cove base in Stoncrete is only available in a solid color. This is achieved by removing the decorative aggregate and clear coating or coated with a pigmented sealer. Contact your local Stonhard representative or Technical Service for details.

### PACKAGING

Stoncrete EFX is packaged in units for easy handling. Each unit consists of:

#### Stoncrete EFX Base

2 cartons, each containing:  
6 foil bags of Amine  
6 poly bags of Resin

12 individual bags of Part C-1 Aggregate  
12 individual bags of Part C-2 Aggregate

#### Stoncrete Groutcoat

1 carton, each containing:  
4 foil bags of Amine  
4 poly bags of Resin

### PHYSICAL CHARACTERISTICS

Compressive Strength .....	10,000 psi
(ASTM C-579)	after 7 days
Tensile Strength .....	1,750 psi
(ASTM C-307)	
Flexural Strength .....	4,000 psi
(ASTM C-580)	
Flexural Modulus of Elasticity .....	2.0 x 10 <sup>6</sup> psi
(ASTM C-580)	
Hardness .....	85 to 90
(ASTM D-2240, Shore D)	
Impact Resistance .....	>160 in./lbs.
(ASTM D-2794)	
Abrasion Resistance.....	0.1 gm *
(ASTM D-4060, CS-17)	
Flammability .....	Class 1
(ASTM E-648)	
Thermal Coefficient	
of Linear Expansion ...	1.4 x 10 <sup>5</sup> in./in. °F (ASTM C-531)
Water Absorption.....	0.2%
(ASTM C-413)	
VOC Content .....	
(ASTM D-2369, Method E)	
..... Stoncrete EFX Base:	4 g/l
..... Stoncrete Groutcoat –	52 g/l
..... Stonkote CE4 –	34g/l
Cure Rate .....	24 hours for normal operations
(at 75°F/25°C)	

\* Test samples finished with one coat of high-solids epoxy coating

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field-applied materials may vary and certain test methods can only be conducted on lab-made test coupons.

**Stonkote CE4**

0.25 cartons, each containing:

- 6 foil bags of Amine
- 6 poly bags of Resin

**Note 1:** Stoncrete Groutcoat is used as primer and is included in the system.

**Note 2:** A polyurethane topcoat is not included in the Stoncrete EFX system and must be ordered separately.

**COVERAGE**

Each unit of Stoncrete EFX will cover approximately 200 sq. ft./18.6 sq. m of surface at a nominal 1/4 in./6 mm thickness.

**STORAGE CONDITIONS**

Store all components of Stoncrete EFX between 60°F/16°C and 85°F/30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

**COLOR**

Stoncrete EFX is available in 5 standard colors. There are 5 base colors and 3 aggregate options available, resulting in 15 options. Refer to the Stoncrete Color Sheet. Please contact your local Stonhard representative or Technical Service with any questions.

**SUBSTRATE**

Stoncrete EFX, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service.

**SUBSTRATE PREPARATION**

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen TD9) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

A right-angle grinder and chipping hammer should be used to make 1/4"/6 mm chases at all doorways and areas where Stoncrete EFX will not abut a vertical surface. On large installations it may be necessary to divide the area with a chase or a false joint. This is to create an endpoint where the installation can stop at a neat, straight line while maintaining the desired thickness.

**PRIMING**

The use of Stoncrete Groutcoat is necessary for all applications of Stoncrete EFX. It is included in the Stoncrete EFX system. Please see the Stoncrete EFX directions for details.

**MIXING**

- Proper mixing is critical for the product to exhibit the proper application properties, cure properties and ultimate physical properties.
- Mechanical mixing using a JB Blender (or equivalent 5 gal. pail mixer) or a larger mortar mixer (e.g., a Baugh 3 Batch Mixer) is required.
- See Stoncrete EFX Directions for further details.

**APPLYING**

- DO NOT attempt to install material if the temperature of Stoncrete EFX components and substrate are not within 60°F/16°C to 85°F/30°C. The cure time and application properties of the material are severely affected at temperatures outside of this range.
- Material must be applied immediately after mixing.
- A suitable screed applicator is used to distribute the mixed Stoncrete EFX mortar onto the floor.
- A power trowel is used to compact and smooth the surface of the material to the required thickness. Steel hand trowels can be used on edges and hard-to-reach areas.
- Once cured, the mortar is polished with a planetary grinder.
- Two coats of Stoncrete Groutcoat are applied to the floor wet-on-wet and are allowed to cure.
- The groutcoat is sanded and Stonkote CE4 is applied to the floor and allowed to cure.
- A polyurethane topcoat is applied to the floor and allowed to cure.
- Detailed application instructions can be found in the Stoncrete EFX Directions.

## NOTES

- Use only with adequate ventilation.
- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available.
- Safety Data Sheets for Stoncrete EFX are available online at [www.stonhard.com](http://www.stonhard.com) under Products or upon request.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high-gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep-cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.
- A staff of technical service engineers is available to assist with installation, or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

### IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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