PRODUCT DESCRIPTION

Stontec ERF is a nominal 2mm thick flooring system with a decorative, stain-resistant surface. The color-flake broadcast layer results in an attractive floor surface with unlimited color options and is sealed with an epoxy sealer to form a seamless overlayment. It is comprised of:

Stonhard Primer
Appropriate primer for sealing and bonding to the substrate.

Texture 3
Uniform Silica broadcast

Stontec ERF Undercoat
A three-component, high-solids, epoxy undercoat consisting of resin, curing agent, and filler

Stontec Flakes
Brightly-colored flakes

Stonkote CE4
A two-component, high-solids, high-performance, UV-resistant, clear epoxy sealer

OPTIONS

Cove Base
To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 2 to 6 in./5 to 15 cm are available.

Thickness
For areas requiring increased thickness, a 1/8 to 3/16 in./0.31 to 0.47 cm of epoxy mortar may be added.

PACKAGING

Stontec ERF is packaged in units for easy handling. Each unit consists of:

Texture 3
1.5 bags of silica aggregate

Stontec ERF Undercoat
0.66 cartons of Stonkote CE4 containing:
- 6 foil bags of amine
- 6 poly bags of resin

0.66 boxes of undercoat filler

Stontec Flakes
0.9 individual boxes of small (1/16 in.) colored flakes
or
0.7 individual boxes of large (1/4 in.) colored flakes

Stonkote CE4
1 carton containing:
- 6 foil bags of amine
- 6 poly bags of resin

IMPORTANT: Appropriate primer must be ordered separately depending on the substrate.

COVERAGE

Each unit of Stontec ERF will cover approximately 200 sq. ft./18.6 sq. m of surface at a 2 mm nominal thickness.

STORAGE CONDITIONS

Store all components of Stontec ERF between 60 to 85˚F/16 to 30˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life is three years in the original, unopened container.

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	5,200 psi
Flexural Modulus of Elasticity (ASTM D-790)	1.7 x 10^6 psi
Hardness (ASTM D-2240, Shore D)	85 to 90
Impact Resistance (ASTM D-4226)	>160 in./lbs.
Abrasion Resistance (ASTM D-4060, CS-17)	0.03 gm max. weight loss
Cure Rate (@ 77˚F/25˚C)	12 hours for foot traffic 24 hours for normal operations
Flexural Strength (ASTM D-790)	4,000 psi
Flammability (ASTM E-648)	Class 1
Linear Coefficient of Thermal Expansion (ASTM C-531)	17x10^{-6} in./in. ˚F
VOC Content (ASTM D-2369, Method E)	ERF Undercoat - 34 g/l Stonkote CE4 - 34 g/l

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.

COLOR
Stontec ERF is available in twelve standard colors in small (1/16 in.) or large (1/4 in.) sized flakes. Refer to the Stontec Color Sheet. Custom colors are available upon request.
Note: Micro (1/32 in.) flakes are available upon special request.

SUBSTRATE
Stontec ERF, with the appropriate primer, is suitable for application over properly prepared concrete, wood, brick, quarry tile, metal, or Stonhard 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 and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

PRIMING
The use of the appropriate primer is necessary for all applications of Stontec ERF. The primer must be fully cured prior to application of the undercoat.

MIXING
- Proper mixing is critical for the products to exhibit the proper application properties, cure properties, and ultimate physical properties.
- Mechanical mixing is required for all components.
- See Stontec ERF Directions for further details.

APPLYING
- DO NOT attempt to install material if the temperature of Stontec ERF components and substrate are not within 60 to 85˚F/16 to 30˚C. The cure time and application properties of the material will be severely affected.
- The primer is mixed, applied to the floor, and broadcasted to refusal with Texture 3. The primer is allowed to cure and excess aggregate is removed.
- The undercoat is mixed, applied to the floor, and broadcasted to refusal with Stontec Flakes. The undercoat is allowed to cure and excess flake is removed.
- Stonkote CE4 is mixed, applied to the floor, and allowed to cure. The floor is lightly sanded and vacuumed.
- A second Stonkote CE4 is applied to the floor and allowed to cure.

Refer to the Stontec ERF Directions for further detail.

NOTES
- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available in the Stontec Chemical Resistance Guide.
- Safety Data Sheets for Stontec ERF are available online at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard flooring products.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located worldwide.
- 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.

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