

PRODUCT DESCRIPTION

Stontec EFC is a decorative, seamless flooring system comprised of:

Stonkote GS4

Premium pigmented epoxy coating

Stontec Vinyl Flakes

Brightly coloured, vinyl flakes

Stonshield Sealer

A two-component, solvent free, high performance, UV resistant, clear epoxy sealer

USES, APPLICATIONS

Applications vary from light manufacturing, to laboratories, lunchrooms, change rooms, hallways, offices and holding areas in healthcare, educational and correctional facilities.

SUBSTRATE

Stontec EFC is suitable for application over properly prepared concrete that does not require renovation. In most cases, this will be new or very smooth concrete. Not recommended over wood, brick, tile, asphalt, mastic, gypsum based products or painted surfaces. These must first be removed by mechanical means prior to priming and overlayment.

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

Stonkote GS4

- 1 carton containing:
- 4 foil bags of Part A (curing agent)
- 4 poly bags of Part B (resin)

Stontec Vinyl Flake

0.33 box of brightly coloured vinyl flakes

Stonshield Sealer

- 1 carton containing:
- 6 foil bags of Part A (curing agent)
- 6 poly bags of Part B (resin)

PHYSICAL CHARACTERISTICS

Tensile Strength	5,200 psi
(ASTM C-307)	
Hardness	85 to 90
(ASTM D-2240, Shore D)	
Bond Strength	>400 psi
(ASTM D-4541)	(100% concrete failure)
Impact Resistance	>160 in./lbs.
(ASTM D-4226)	
Abrasion Resistance	0.06 gm max. weight loss
(ASTM D-4060, CS-17)	
Cure Rate	12 hours for foot traffic
(@ 77°F/25°C)	24 hours for normal operations
Coefficient of Friction (Dry)	0.79
(ASTM F-1679)	
Slip Resistance Index (Wet)	0.65
(ASTM F-1679)	

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.

COVERAGE

Each unit of Stontec EFC will cover approximately 300 sq. ft./27.9 sq.m. of full broadcast.

STORAGE CONDITIONS

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

COLOUR

Stontec EFC is available in a virtual endless array of colour combinations. Refer to the Stontec and Stonkote Colour Sheets. Custom colours are available upon request.

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, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen DG9) 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.

APPLICATION

Application of the Stontec EFC system is accomplished as follows:

1. Stonkote GS4 is mixed and then applied with a squeegee and rolled with a medium nap roller.
2. After 5 minutes, begin broadcasting coloured flakes until the desired flake density is achieved. Let cure until the surface is tack-free. Sweep off excess flakes and prepare the area for application of Stonshield Sealer.
3. Apply the first sealer coat immediately after mixing. Stonshield Sealer is applied using a rubber squeegee and a medium nap roller.
4. For a fully broadcast floor; after the first sealer coat has cured, sand the surface with a rotary sanding machine. Vacuum the floor and apply a second sealer coat in the same manner as the first. The surface does not need to be sanded for a partial broadcast system.

Refer to the Stontec EFC Directions for further detail.

RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of Stontec EFC 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.
- DO NOT use water or steam in the vicinity of the application. Moisture can **seriously** affect the working time and other properties.
- The use of NIOSH/MSHA approved respirators and safety glasses are recommended.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with rubber gloves.
- Use only with adequate ventilation.

NOTES

- Procedures for maintenance of the flooring system during operations are described in the Stontec Cleaning Procedures.
- Specific information regarding chemical resistance is available in the Stontec Chemical Resistance Guide.
- Material Safety Data Sheets for Stontec EFC are available upon request.
- A staff of technical service engineers is available to assist with installation, or to answer questions related to Stonhard's flooring products.
- Requests for technical service or literature 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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