

PRODUCT DESCRIPTION

Stontec ERF is a nominal, 2mm thick flooring system with a decorative slip resistant surface.

USES

The colour flake broadcast layer results in an attractive floor surface with unlimited colour options and is sealed with an epoxy sealer to form a seamless overlayment. It is comprised of:

PRIMER:

Stonbind UR-964: A 3-component primer for sealing and bonding to the substrate.

Stonhard 6221 Aggregate: Broadcast into primer

UNDERCOAT

Stonbind UR-964: A three-component, high solids epoxy undercoat consisting of resin, curing agent and filler.

Stontec Flakes 798: Brightly coloured flakes available in 2mm or 6mm size.

SEALER – EXTERNAL

Stonkote CE4-969: A two-component, high solids, high performance, UV resistant clear epoxy sealer.

SEALER - INTERNAL

Stonbind UR-964: A 2-component, resin only, clear epoxy sealer

OPTIONS:

Cove Base

To provide for an integral seal at the joint between the floor and the wall, cove based in heights from 50 to 150mm are available using Stonshield Coving Resin 980 and Stonshield 981C blended aggregates as per the colour card.

Thickness

For areas requiring increased thickness, a 3 to 4mm of epoxy mortar may be added. Contact StonCor Africa for suitable systems.

PACKAGING AND COVERAGE

Stontec ERF is packaged as a system utilising a Universal Resin, Stonbind UR-964 for priming, coloured flake binding and sealing.

Primer and Colour Flake Binding:

Stonbind UR-964 Resin (14 litre kit) Part A, B + C (15kg fine powder) mixed together to a slurry consistency; yield 20 litres per kit

- 1) Priming: 3m²/litre
- 2) Primer Broadcast Aggregate, 25kg Stonhard 6221: 2kg/m²
- 3) Undercoat: 2m²/litre
- 4) Coloured Flake, 25kg Stontec 798 - Partial Rejection: 10m²/kg
- Full Rejection: 3m²/kg

Sealer Interior

Stonbind UR-964 Resin Part A + B; Yield 14 litre kit
Medium Texture 4m²/litre; Fine Texture 2m²/litre

Sealer Exterior

Stonkote CE4-969 Resin Part A + B; 5 litre kit
Medium Texture 4m²/litre; Fine Texture 2m²/litre

REFERENCE SAMPLE

A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverages and workmanship.

STORAGE CONDITIONS

Store all components of Stontec ERF-798 between 16°C to 32°C in a dry area. Avoid excessive heat and do not freeze.

SHELF LIFE

The shelf life is 3 years in the original, unopened container.

COLOUR

Stontec ERF is available in 12 standard colours and in 2mm or 6mm sized flakes. Refer to the Stontec colour sheet. Custom colours are available upon request.

TYPICAL PROPERTIES AT 25°C

Tensile Strength ASTM D-638	11 MPa
Flexural Modulus of Elasticity ASTM D-790	17 x 10 ³ MPa
Hardness ASTM D-2240, Shore D	85 to 90
Impact Resistance ASTM D-4226	> 18 joules
Abrasion Resistance ASTM D-4060, CS-17	0.03 gm max weight loss
Cure Rate at 25°C	12 Hours for foot traffic 24 Hours normal operation
Coefficient of Friction ASTM F-1679	0.79 (dry)
Slip Resistance Index ASTM F-1679, F-2508	0.85 (wet)
Flexural Strength ASTM D-790	30 MPa
Flammability ASTM E-648	Class 1
Linear Coefficient of Thermal Expansion – ASTM C-531	30 x 10 ⁻⁵ mm/mm/°C
VOC Content	ERF Undercoat 50g/l Sealer 34g/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.

PLACEMENT GUIDELINES

SCOPE OF WORK (BOQ):

Prepare surfaces and apply Stontec ERF as a 2mm epoxy reinforced flake decorative floor system. The system is made up of multiple layers: primer, aggregate, coloured flakes and sealer coat.

SUBSTRATE PREPARATION:

Remove all oils, grease and other contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water to obtain a water break-free surface. Allow to dry. Abrade the surface by vacu-blasting or grinding to expose the aggregate and open all voids. The roughened surface should have a texture similar to 80-grit sandpaper, minimum tensile strength of 2 MPa and moisture content of 5% maximum.

PRIMING:

- Mix the base and activator of Stonbind UR-964 mechanically for 2 minutes in a 25 litre drum with a mechanical mixer fitted with a spiral impeller. Carefully add the Part C fine powder to the kit and continue stirring for another 2 minutes to form a lump-free slurry.
- Apply two coats of Stonbind UR-964 solvent-free slurry wet-on-wet at a spread rate of 3m²/litre for total application, using a rubber squeegee. Do not backroll the primer.
- Into the wet primer, broadcast Stonhard 6221 aggregate at a spread rate of 2kg/m². Allow to fully cure (6 to 8 hours) and sweep off and vacuum to remove all non-bonding aggregate.

APPLICATION OF STONTEC ERF FLAKES:

- Apply a second coat of Stonbind UR-964 slurry at a spread rate of 2m² per litre using a rubber squeegee. Backroll to remove squeegee lines and puddles. Broadcast the paint flakes into the wet resin at a spread rate of 3m²/kg to full rejection. Allow to cure.
- Using stiff bristle brooms, sweep the surface to remove any unbonded flakes. De-nib the sharp edges of the flakes using the edge of a steel trowel. Vacuum to remove all loose flakes.

SEALING:

UV-Stable Sealer (Stonkote CE4-969 for exterior or Stonbind UR-964 Part A + B for interior)

- Mix the components of Part A + B for 60 seconds using a mechanical mixer.
- Transfer material into another container and mix for a further 60 seconds. This will ensure no uncured material from the bottom of the tin is present.
- After mixing, pour the sealer onto the floor in the form of a bead about 15cm wide.
- Using a rubber squeegee, slowly pull the liquid across the floor surface.
- To make sure all lap marks and puddles of liquid are removed, roll the wet surface with a good quality medium nap paint roller. The roller should be saturated with Sealer at all times. Use only light pressure when rolling. When applying the sealer, the roller covers tend to become oversaturated and/or hardened by cured material. If this occurs, the roller covers must be replaced to avoid puddling of the sealer.

RECOMMENDATIONS:

- DO NOT attempt to install material if temperature of components and substrate are not within 16 to 30°C. The cure time and application properties of the material are severely affected.
- DO NOT use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- Protect areas from dust and isolate access. Contamination between layers will affect the final appearance.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with protective creams or rubber gloves and wear safety glasses.
- Use only with adequate ventilation.

NOTES:

- Procedures for maintenance of the flooring system during operations are described in "StonCor Cleaning Procedures".
- Specific information regarding chemical resistance is available in the Chemical Resistance Guide.
- Material Safety Data Sheets are available on request.
- A staff of technical service engineers is available to assist in installation or to answer questions related to our flooring products specifically or flooring problems in general.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located throughout the world.