

DECORATIVE EPOXY FLOORING SYSTEM STONTEC ERF

Ref # Date

REQUIREMENTS:

Proposed 2mm thick flooring system with a decorative stain resistant surface. 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 for (location).

SCOPE OF WORK (BOQ):

Apply **Stontec ERF** as a 2mm epoxy reinforced flake decorative floor system. The system is made up of multiple layers, primer, coloured aggregate, coloured flakes and sealer coat. Inclusive of surface preparation, apply **Stontec ERF** in strict accordance with the manufacturer's product data sheet.

THE STONTEC ERF SYSTEM CONSISTS OF:

	Product	Kit Size	D.F.T.
1 st and 2 nd Primer	SL Primer	20 Litre	3.3m ² /litre
1 st Broadcast	Stonhard 981C Pigmented Aggregate / Stonhard 6221	25kg	2kg/m ²
Flake Broadcast	Stontec Flakes	25kg	300g/m ²
Sealer	Stonkote 787	15 Litre	5.3m ² /litre
Sealer	Stonkote CE4 (optional if a UV stable finish is required)	5 Litre	3.3m ² /litre

Note: Spread rates are theoretical and are subject to texture porosity and wastage.

TEMPERATURE:

Apply **Stontec ERF** only in temperatures ranging between 16°C and 30°C.

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 vacublasting or scarifying to expose the aggregate and open all voids. The roughened surface should have a texture similar to 40-grit sandpaper, minimum tensile strength of 2 MPa and moisture content of 5% maximum. Refer to the product data sheet for additional surface preparation requirements.

PRIMING:

Priming in the presence of a vapour barrier with SL Primer:

- Mix the base and activator of **SL Primer** mechanically for 2 minutes in a 25 litre drum with a drill fitted with a spiral impeller. Carefully add the fine powder to the kit and continue stirring for another 2 minutes.
- Apply 2 coats of **SL Primer** solvent-free primer wet-on-wet at a spread rate of 3.3m²/litre/coat, using a rubber squeegee. Do not backroll the primer.
- Into the wet primer, broadcast **Stonhard 981C** pigmented aggregate (colour White) or **Stonhard 6222** 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.

The Applicator contracts with the Client to apply the coating system strictly in accordance with the specification, and is therefore required to monitor the quality of his own workmanship. Any deviations from the specification are for agreement between the Applicator and the Client. StonCor Africa acts in an advisory capacity only, to provide technical assistance to other parties, and does not inspect nor approve the quality of application and workmanship.

REFER TO THE LATEST PRODUCT DATA SHEETS BEFORE PRICING OR COMMENCING APPLICATION, FOR ADDITIONAL INFORMATION AND CAUTIONS CONCERNING PRODUCT USAGE.

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Priming in the absence of a vapour barrier with Stonprime 786 OPR:

- Empty the entire contents of the **Stonprime 786 OPR** Base and Activator components into a clean, dry mixing container. Mix thoroughly for 2 minutes with an impeller to a variable speed drill. Transfer material into another mixing container, scraping the sides and bottom of the container and remix for another 2 minutes. This step is critical to ensure that complete cross-linking of components is achieved. **Do not aerate while mixing nor mix by hand.**
- **Stonprime 786 OPR** may be applied by rubber squeegee, brush or roller and broadcast **Stonhard 6222** evenly at 1kg/m². It is important to obtain the proper coverage and not allow the material to puddle in holes or depressions. These can be filled by making an epoxy mortar consisting of 1 litre **Stonprime 786 OPR** mixed resin and a unit of graded aggregate **Stonhard 6223**.

APPLICATION OF THE STONTEC FLAKES:

- Apply a 2nd coat of the primer at a spread rate of 3.3m²/litre. Broadcast the paint flakes into the wet resin at a spread rate of 300g/m² and allow to cure.
- Using stiff bristle brooms, sweep the surface to remove any loose flakes and to remove all sharp edges. Vacuum to remove.

SEALING:

- Apply 2 coats of **Stonkote 787** wet-on-wet using a non-marking rubber squeegee followed by rolling with a looped roller at a theoretical coverage of 2m²/litre. Final texture can be adjusted by increasing or degreasing the film thickness.
- **UV-stable Sealer (optional):**
Using the mixing blade, mix the components of **Stonkote CE4** for about 60 seconds or until the material has a uniform colour and appearance. After mixing, pour the **Stonkote CE4** 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 unsaturated and/or hardened by cured material. If this occurs, the roller covers must be replaced to avoid puddling of the sealer.
- Once the sealer coat is fully cured, sand the surface with a rotary sanding machine.
- Thoroughly vacuum the floor and apply a second coat of **Stonkote CE4** in the same manner as the first. The second coat of sealer is applied significantly thinner than the first.

ARCHITECTURAL DETAIL:

Cove Base: If required and to provide an integral seal at the joint between the flake and the wall, cove bases height from 50 to 150mm are available, using **Stonshield 980** resin and **Stonshield 981C** blended aggregate, as per the colour card, and broadcasted with the same flake as the floor, thereafter sealed with **Stonkote 787** or **Stonkote CE4**.

Technical Approval: _____

Date: _____

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