

DECORATIVE EPOXY FLOORING SYSTEM STONTEC TRF

Ref # Date

REQUIREMENTS:

Proposed 3 to 4mm polyurethane-based flooring system with a decorative stain resistant surface. It's trowelled base provides superior impact resistance. The colour flake broadcast layer results in an attractive floor finish with various colour options and sealed with an epoxy sealer to form a seamless overlayment for (location).

SCOPE OF WORK (BOQ):

Apply **Stontec TRF** as a 3 to 4mm polyurethane-based flake decorative floor system. The system is made up of multiple layers, primer, polyurethane mortar, coloured flakes and sealer coat. Inclusive of surface preparation, apply Stontec TRF in strict accordance with the manufacturer's product data sheet.

THE STONTEC TRF SYSTEM CONSISTS OF:

	Product	Kit Size	Theoretical Coverage
Primer	PU Primer Parts A, B & Filler	10 Litre	2 to 3m ² /litre
Base Coat	Stonclad UL Parts A, B, C & Pigment Pack	18 Litre	4.5m ² /kit at 4mm 6m ² /kit at 3mm
Flake Broadcast	Stontec Flakes	18.14kg	300g/m ²
Sealer	Stonkote 787	15 Litre	3.3m ² /litre
Sealer	Stonkote CE4 (optional if a UV stable finish is required)	5 Litre	5.0m ² /litre

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

TEMPERATURE:

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

SUBSTRATE PREPARATION:

Remove all oils, grease, existing coatings, laitance and other contaminants. Abrade the surface by vacublasting or scarifying to expose the aggregate and open all pores. 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.

MIXING:

Mix products in strict accordance with the product data sheet and standard mixing practice for solvent-free systems.

PRIMING:

- Drive steel nails into the existing joints and/or concrete cuts.
- Apply 2 coats of **PU Primer** solvent-free primer wet-on-wet to achieve 1 to 3m²/litre using a rubber squeegee. Do not backroll the primer.

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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- **PU Primer** has a working time of 10 to 15 minutes at 25°C.
- Allow the **PU Primer** to cure for a minimum of 16 hours at 25°C and ensure that **Stonclad UL** is applied within 48 hours of priming the substrate.
- If blowholes or voids are detected in the cured primer, they should be skimmed level with **Dural 30/35NS** Quickset.

APPLICATION:

- The use of floor lights is critical during application to detect even spread and levelling of the finished product.
- Divide the floor into panels not greater than 5m wide. This will ensure that fresh product is continuously applied onto the wet edge of the previous kit.
- Apply kits of **Stonclad UL** at 4.5 to 6m²/kit by pouring the mixture in a line onto the floor and raking out using a notched trowel rake, spreading evenly to achieve required thickness. This application should not take longer than 60 seconds.
- Spike roll each applied kit in a uniform direction for a full 5 minutes, ensuring a flat and even surface is achieved. Failure to follow a uniform spiking period and direction will lead to an uneven appearance.
- Do not spike roll each kit longer than 8 minutes after application.

APPLICATION OF STONTEC FLAKES:

- Broadcast the paint flakes into the wet resin at a spread rate of 300 g/m² and allow to cure.
- Allow the **Stonclad UL** to cure for a period of 12 hours at 25°C.
- Remove the nails followed by saw-cutting. All expansion joints should be filled with the appropriate Stonhard sealant to cater for the slab's movement as per the engineer's design detail. For non-moving joints, seal with **Tammsflex 748** Sealer (as per the product data sheet).
- Using stiff bristle brooms, sweep the surface to remove any and all sharp edges and 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 3.3m²/litre. Final texture can be adjusted by increasing or decreasing 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.

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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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