

STONCLAD UL WITH STONKOTE HT4

Ref # Date

REQUIREMENTS:

Proposed flooring system for the coating of concrete floors, where a 3 to 4mm self-levelling system is required including a 100% volume solids, chemically resistant sealer coat, where the floor will be exposed to foot traffic, trolley-jack and/or forklift traffic as well as moderate chemicals or oils with abrasion and impact expected at temperatures not exceeding 60°C wet or dry.

SCOPE OF WORK (BOQ):

Apply **Stonclad UL** as a 3 to 4mm impact and chemical resistant self-levelling polyurethane urea cement floor screed. Inclusive of surface preparation, apply **PU Primer**, **Stonclad UL** and **Stonkote HT4** in strict accordance with the manufacturer's product data sheets.

THE STONCLAD UL SYSTEM CONSISTS OF:

	Product	Kit Size	Theoretical Coverage
Primer	Stonprime PU	10 Litre kit	1 to 3m ² /litre
Flooring System	Stonclad UL	18 Litre kit	4.5m ² /kit at 4mm 6m ² /kit at 3mm
Sealer Coat	Stonkote HT4	2 Litre kit	3 to 4m ² /litre/coat (2 coats required)

TEMPERATURE:

Apply **Stonclad UL** only in temperatures ranging between 16°C and 30°C.

Apply **Stonkote HT4** only in temperatures ranging between 15°C to 35°C.

SUBSTRATE PREPARATION:

Remove all oils, grease, existing coatings, laitance and other contaminants. Abrade the surface by vacu-blasting 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. **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.

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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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 5 metres 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 the 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 for longer than 8 minutes after application.
- 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 Pro-Struct sealant to cater for the slab's movement as per the engineer's design detail. For non-moving joints, fill with **Tammsflex 748** Joint Filler (as per the product data sheet).

SEALING – STONKOTE HT4:

Option 1:

Transfer mixed material into a paint tray and, using a medium nap roller, dip and roll the **Stonkote HT4**. The roller should be saturated with sealer at all times. This will smooth and level the sealer to achieve a uniform texture and appearance.

Option 2:

Stonkote HT4 is applied with a rubber squeegee and backrolled with a medium nap roller. The roller is used to remove squeegee lines and smooth out the surface, leaving a slightly textured, mild, non-slip finish. A brush may be used where necessary.

- After 4 to 5 hours at 25°C, apply a second coat of **Stonkote HT4**, as per the previous coat. Theoretical coverage of 3 to 4m²/litre/coat (2 coats required). Coverage will vary depending on coarseness of broadcast aggregate used and desired finish.
- Remove the steel nails, chalk line the joint markings and use a dedicated joint cutting machine such as the Hilti to saw-cut through the cured **Stonclad UL**, to suit the engineer's design joint detail. Fill the joints with the required Pro-Struct joint sealant, as determined by the specific requirements of the project (see engineer's detail).

REFERENCE SAMPLE:

A trial reference area should be installed by the applicator prior to start of contract to verify correct coverages, workmanship, appearance, colour and texture.

ARCHITECT DETAIL:

- Coving
- Joints

Technical Approval: _____

Date: _____

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