

SELF-LEVELLING POLYURETHANE FLOORING SYSTEM STONCLAD UL

Ref # Date

REQUIREMENTS:

Proposed flooring system for concrete floors where a 3 to 4mm, self-levelling system is required and where the floor will be exposed to foot traffic, trolley jack and/or forklift traffic with moderate chemicals or oils with abrasion and impact expected at temperatures not exceeding 60°C wet or dry and not below 5°C.

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 and primer, apply **Stonclad UL** in strict accordance with the manufacturer's product data sheet.

THE STONCLAD UL SYSTEM CONSISTS OF:

	Product	Kit Size	Theoretical Coverage
Primer	PU Primer	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
Optional Non-slip Sealer	Stonseal 722	5 Litre kit	7m ² /litre/coat

TEMPERATURE:

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

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 grinding. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (**Carboclean 250** or **Carboclean 252**) and rinsing with clean water. Previously contaminated substrates should be neutralised and thoroughly rinsed with potable water. pH checks with litmus paper should be carried out to confirm neutral substrates. The surface must show open pores throughout with main aggregate in concrete exposed and have a sandpaper texture. Substrate moisture content prior to coating should be < 5% and substrate tensile strength above 1.5 MPa. For recommendations or additional information regarding substrate preparation, refer to surface preparation data sheet or contact StonCor Africa Technical Service Department.

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 two 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.

StonCor Africa (Pty) Ltd
Co. Reg. No.: 1996/01848/07
Tel No: +27 11 254 5500
Website: www.stoncor.co.za
E-mail: stoncorsa@stoncor.com

- **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 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 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.
- 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).

OPTIONAL NON-SLIP SURFACE:

An easy cleaning, mild, non-slip finish can be achieved by overcoating with 2 coats of **Stonseal 722** Clear Sealer to achieve theoretical coverage of 7m²/litre/coat and allow to cure for 8 to 12 hours between coats. Proper degreasing and cleaning of the cured surface will be required before overcoating.

REFERENCE SAMPLE:

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

ARCHITECT DETAIL:

- Coving
- Joints

Technical Approval: _____

Date: _____

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