

## STONCLAD UL WITH STONSEAL 731

Ref #      Date

### **REQUIREMENTS:**

Proposed flooring system for the coating of concrete floors, where a 3 to 4mm self-levelling system is required and where the system 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 **Stonseal 731** in strict accordance with the manufacturer's product data sheets.

### **THE STONCLAD UL SYSTEM CONSISTS OF:**

	Product	Kit Size	Theoretical Coverage
Primer	PU Primer	10 Litre kit	1 to 3m <sup>2</sup> /litre
Flooring System	Stonclad UL	18 Litre kit	4.5m <sup>2</sup> /kit at 4mm 6m <sup>2</sup> /kit at 3mm
Sealer Coat	Stonseal 731	5 Litre kit	7 to 9m <sup>2</sup> /litre/coat First coat, thinned 20% with Thinner # 25 Final coat, 2 coats may be required in high abrasion areas *

*\* Depending on colour of Stonseal 731, additional coats may be required to obliterate fully (light and bright colours especially)*

### **NOTE:**

Focus to be given on surface preparation prior to the application of the UV-stable sealer coat in order to ensure proper intercoat adhesion.

### **TEMPERATURE:**

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

Apply **Stonseal 731** 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.

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](http://www.stoncor.co.za)  
E-mail: [stoncorsa@stoncor.com](mailto:stoncorsa@stoncor.com)

## **PRIMING – PU PRIMER:**

- 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 3m<sup>2</sup>/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.

## **APPLICATION – STONCLAD UL:**

- 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 6m<sup>2</sup>/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 **Tammsflex** 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 – STONSEAL 731:**

- Apply by brush or mohair roller at 7 to 9m<sup>2</sup>/litre, stirring frequently during use. Where abrasion or chemical attack is anticipated, apply a minimum of 1 sealer coat, followed by 2 topcoats.
- Allow to cure for 8 to 12 hours before overcoating.
- If necessary, patch cracks and holes by filling with **Dural 617** Epoxy Paste.

## **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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