

STONCLAD UL WITH PRO-STRUCT 513 LEVELLING SCREED

Ref # Date

REQUIREMENTS:

Proposed flooring system for the coating of concrete floors where a 3 to 4mm self-levelling system is required, inclusive of a 10 to 30mm levelling screed, where the floor will be exposed to foot traffic, vehicle traffic, trolley-jack and/or forklift traffic as well as moderate chemicals or oils at temperatures not exceeding 60°C wet or dry.

SCOPE OF WORK (BOQ):

Apply **SL Primer** and **Pro-Struct 513** at the specified thickness to achieve a seamless, cementitious levelling mortar flooring system. Apply **PU Primer** and **Stonclad UL** as a 3 to 4mm impact and chemical resistant self-levelling polyurethane urea cement floor screed, inclusive of surface preparation, apply **Pro-Struct 513** and **Stonclad UL** in strict accordance with the manufacturer's product data sheet.

THE STONCLAD UL SYSTEM CONSISTS OF:

	Product	Kit Size	Theoretical Coverage
Levelling Screed:			
Primer	SL Primer	20 Litre	3.3m ² /litre
Aggregate	Stonhard 6223	25kg	2.5kg/m ²
	Pro-Struct 513	25kg	1.4m ² /25kg at 10mm
Flooring System:			
Primer	Stonprime PU	10 Litre kit	1 to 3m ² /litre
Flooring	Stonclad UL	18 Litre kit	4.5m ² /kit at 4mm 6m ² /kit at 3mm

TEMPERATURE:

Apply **Pro-Struct 513** and **Stonclad UL** only in temperatures ranging between 16°C to 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 vacu-blasting or scarifying to remove the laitance, open all voids and expose the aggregate to a depth of 1 to 2mm. The roughened surface should be a dust-free, sound concrete surface with a portion of the main aggregate in the concrete exposed. A minimum tensile strength of 2 MPa and moisture content of less than 5% is required. Refer to the product data sheet for additional surface preparation requirements.

PRIMING – SL PRIMER:

- Drive steel nails into the existing joints to demarcate the concrete cuts.
- Apply 2 coats of **SL Primer** Solvent-free Primer, wet-on-wet, to achieve 3.3m²/litre using a rubber squeegee.
- Remove all ponded resin and squeegee lines before allowing the primer to cure.
- Do not backroll the primer.
- Broadcast **Stonhard 6223** aggregate onto the wet primer to rejection.
- Once cured, sweep off all loose aggregate and vacuum the surface.

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.

- Allow the **SL Primer** to cure for 6 to 8 hours at 25°C and ensure that **Pro-Struct 513** is applied within 16 hours of priming the substrate.

APPLICATION:

Pro-Struct 513:

- The product must be continuously placed to provide a smooth and uniform surface.
- Start in one corner, placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface.
- Spread the material to the desired thickness with a gauge rake. Use a spiked roller to quickly remove any entrapped air bubbles.
- A trial reference sample should be installed by the applicator prior to start of the contract to verify correct coverages, workmanship, colour and texture.
- Allow to fully cure.
- The surface might have to be grinded before application of Stonprime PU.

Stonprime PU:

- Drive steel nails into the existing joint 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.

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 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 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).

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.

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

ARCHITECT DETAIL:

- Coving
- Joints

Technical Approval: _____

Date: _____

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