# 2 to 3mm SELF-LEVELLING EPOXY FLOORING SYSTEM
# STONLUX SL WITH STONPRIME 639

Ref # Date

## REQUIREMENTS:

Proposed flooring system for concrete floors, where a 2 to 3mm self-levelling epoxy flooring system is required, exposed mostly to foot and trolley-jack traffic, moderate chemicals and oils at ambient temperatures for (project and location).

## SCOPE OF WORK (BOQ):

Apply **Stonlux SL** as a 2 to 3mm seamless, self-levelling epoxy flooring system. Inclusive of surface preparation, apply **Stonlux SL** and **Stonprime 639** in strict accordance with the manufacturer's product data sheet.

## THE STONLUX SL SYSTEM CONSISTS OF:

| | Product | Kit Size | Theoretical Coverage |
|---|---|---|---|
| **Primer Option a** | **Stonprime 639** | 25 Litre kit | 4 to 6m$^2$/litre |
| **Topcoat** | **Stonlux SL** | 20 Litre kit | 0.5m$^2$/litre at 2mm |
| **Optional Non-slip Sealer** | **Stonseal 722** | 5 Litre kit | 10m$^2$/litre |

## TEMPERATURE:

Apply **Stonlux SL** only in temperatures ranging between 16°C to 30°C.

## NOTE:

Take note of temperature limitations of selected primers and underlayments.

## 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. If grinders are used to remove thin coatings, reduce or smooth the surface profiles, it will not give a surface pattern suitable for coatings unless followed by etching or vacublasting. The roughened surface should have a texture similar to 80-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.

## PRIMING ON POROUS SUBSTRATES:

- Drive steel nails into the existing joints to demarcate the concrete cuts.
- Prime the prepared substrate with **Stonprime 639** at a theoretical coverage of 6.4m$^2$/litre. Allow to cure for a minimum of 6 hours at 25°C (maximum 24 hours at 25°C) and apply a second coat at the same spread rate to yield the same dry film thickness and achieve a uniform gloss finish.



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## APPLICATION PROCEDURE FOR STONLUX SL:

- Using a 6mm notched rake, evenly apply the **Stonlux SL** at a theoretical coverage of 0.5m²/litre to achieve a dry film thickness of 2mm. Wearing spiked shoes, spike the material with spiked rollers for a period not exceeding 20 minutes to increase the flow, level the material and de-aerate the product. Allow to cure for 16 hours at 25°C.
- Remove the nails and snap a chalk line down the length of the joints in the **Stonlux SL** for non-moving joints. Using a purpose-made joint cutting machine, saw cut through the **Stonlux SL** to a minimum depth of 25mm x 6mm wide. All joint edges or cracks should be squared and dust-free prior to application. (All movement joints should be treated as per the engineer's joint design detail).
- Mask either side of the saw cut and prime with **Stonprime 639**, allow to cure for 6 hours at 25°C (maximum 24 hours at 25°C). Fill the depth of the joint with **Tammsflex 748** non-moving joint sealant. Allow to cure for a minimum of 24 hours at 25°C before placing into service.

## REFERENCE SAMPLE:

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

## SEALING OF STONLUX SL – NON-SLIP FINISH:

An easy cleaning, mild, non-slip finish can be achieved by overcoating with two coats of **Stonseal 722** Clear Sealer to achieve theoretical coverage of 10m²/litre/coat and allow to cure for 8 to 12 hours between coats.

## ARCHITECT DETAIL:

- Coving
- Joints

**Technical Approval:** _____

**Date:** _____



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