

## POLYURETHANE FLOOR SCREED SYSTEM – STONRES STR

Ref #     Date

### **REQUIREMENTS:**

Proposed floor screed system, where a 3 to 5mm resilient urethane flooring system is required. Stonres STR is a seamless, resilient, stain-resistant flooring system with excellent ergonomic properties and is formulated for applications where a seamless, ergonomic, high-performance finish is required and where the floor will be exposed to traffic and ... at (project name and location)

### **SCOPE OF WORKS (BOQ):**

Apply **Stonres STR** as a 3 to 5mm thick, self-levelling, resilient, ergonomic polyurethane flooring system, in strict accordance with the manufacturer's product data sheets.

### **THE STONRES STR SYSTEM CONSISTS OF:**

	Product	Kit Size	Theoretical Coverage
Self-levelling Primer	SL Primer	20 Litre kit	60 to 70m <sup>2</sup> /litre
Self-leveler	Stonres STR (Activator, Base & UL Pigment Pack)	20 Litre kit	4m <sup>2</sup> /kit at 5mm
Self-leveler	Stonres STR (Activator, Base & UL Pigment Pack)	20 Litre kit	6.7m <sup>2</sup> /kit at 3mm
Sealer	Stonseal CF7	5 Litre kit	50m <sup>2</sup> /kit at 100 microns/coat

### **TEMPERATURE:**

Apply **Stonres STR** only in temperatures ranging between 16°C and 30°C.

### **SUBSTRATE PREPARATION:**

A flat, level substrate is required for Stonres STR application, it cannot be installed over a pitched surface. 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. 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 below 5% and substrate tensile strength 2 MPa. For recommendations or additional information regarding substrate preparation, refer to Surface Preparation Data Sheet or contact StonCor Africa Technical Service Department.

### **PRIMING:**

- The use of **SL Primer** is required for all applications of **Stonres STR** over concrete. The substrate must be free of voids and pinholes after priming and prior to the start of the self-leveler application. The primer layer must not be cured for longer than 16 hours to ensure proper inter-coat adhesion.

### **MIXING:**

- Proper mixing is critical for the products to exhibit the proper application properties, cure properties and ultimate physical properties. Mechanical mixing is required for all components.

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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- Premix the contents of the Base (Part B) component for 30 seconds before adding the pigment pack. Empty out the contents of the pigment pack into the Part B and mix for a further 30 seconds or until the colour is uniform. Pour out the entire contents of the Activator (Part A) component and mechanically mix for 2 minutes. Immediately send the mixed material to the application floor area and within 30 seconds, start another mix.

## **APPLICATION PROCEDURE FOR STONRES STR POLYURETHANE SCREED – FOR 3mm APPLICATION:**

- **For 5mm application:** Using a 15mm notched rake, evenly apply Stonres STR at a theoretical coverage of 0.2m<sup>2</sup>/litre to achieve a dry film thickness of 5mm (5 litres/m<sup>2</sup>).
- **For 3mm application:** Using a 7mm notched rake, evenly apply Stonres STR at a theoretical coverage of 0.33m<sup>2</sup>/litre to achieve a dry film thickness of 3mm (3 litres/m<sup>2</sup>).
- Wearing spiked shoes, spike the material with a spike roller for a period not exceeding 10 minutes to increase the flow, level the material and de-aerate the product.
- Before applying the chosen sealer coat, lightly sand the surface with 100 to 120 grit sandpaper and wipe clean with solvent. Do not use any solvents containing alcohol as alcohol can react with not fully cured polyurethanes.
- Allow to cure for 12 hours at 25°C before sealing with Stonseal CF7. Allow the first coat of Stonseal CF7 to cure for 12 hours before applying the second coat.
- The Stonres STR system must be allowed to cure for 24 hours after the final coat of Stonseal CR7, before foot traffic.

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

## **CURING:**

Apply if temperatures are between 16 to 30°C and allow a minimum of 24 hours cure time before foot traffic and 48 hours before washdown / cleaning procedure commences.

## **RECOMMENDATIONS:**

- **DO NOT** attempt to install material if temperature of components and substrate are not within 16 to 30°C. The cure time and application properties of the material are severely affected.
- **DO NOT** use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- Protect areas from dust and isolate access. Contamination between layers will affect the final appearance.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with protective creams or rubber gloves and wear safety glasses.
- Use only with adequate ventilation.

## **NOTES:**

- Procedures for maintenance of the flooring system during operations are described in “StonCor Cleaning Procedures”.
- Safety data sheets are available on request.
- A staff of technical service engineers is available to assist in installation or to answer questions related to our flooring products specifically or flooring problems in general.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located throughout the world.

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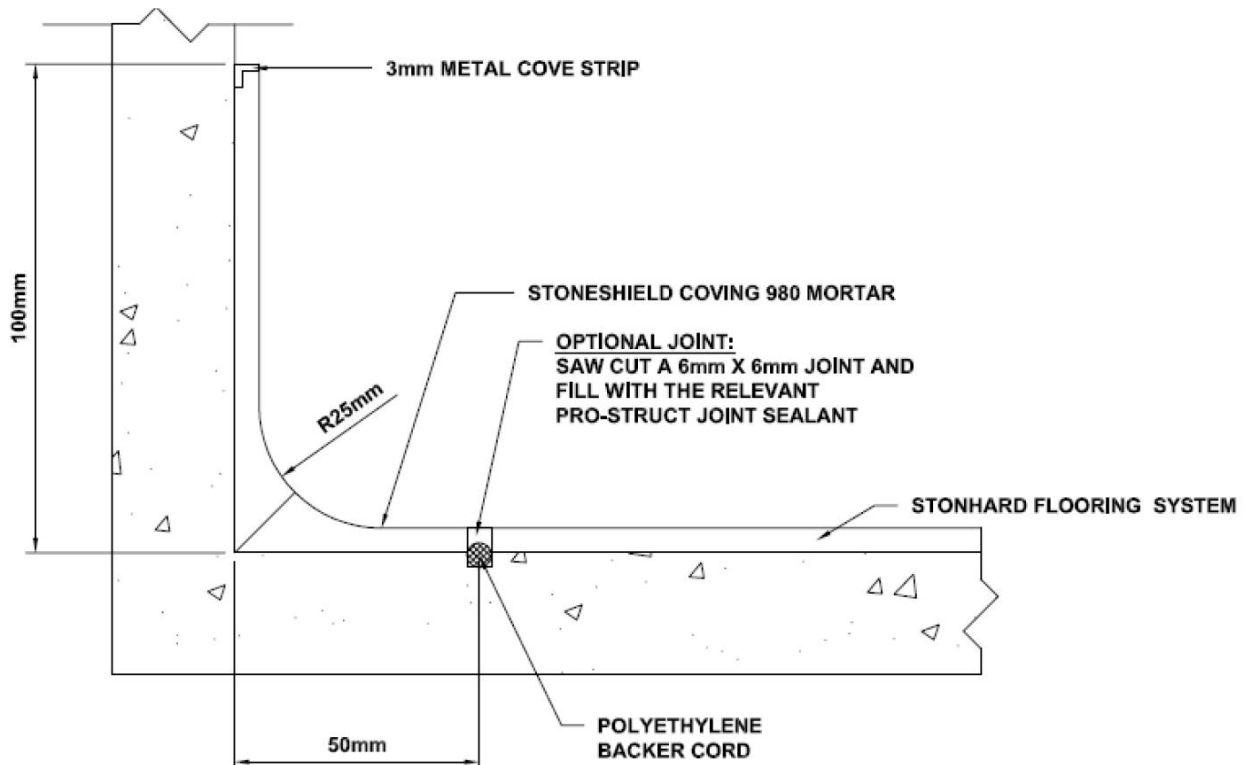
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## **ARCHITECT DETAIL:**

- Coving
- Joints

## **COVING:**



## **APPLICATION PROCEDURE FOR EPOXY MORTAR COVERED SKIRTINGS:**

- Epoxy mortar coved skirtings shall be installed prior to the installation of the flooring system.
- Install the metal cove strip to the wall to the desired height using contact adhesive, taking care to mask above the cove strip for neatness.
- Prime the prepared plastered / concrete surfaces with Dural 618R at a theoretical coverage of 15 linear metres x 200mm wide per 1 litre kit and broadcast Stonhard 6222 Aggregate into the wet resin. Allow 6 to 8 hours to cure at 25°C.
- Mix the 1 litre kits of base and activator of Dural 618/22 for 2 minutes using a JB blender. Add the 6kg bag of Stonhard 622 Aggregate and mix for a further 2 minutes. The yield of this kit is 3.64 litres. Using a steel trowel, apply the Dural 618/22 Mortar to the primed concrete and plastered surfaces to a theoretical spread rate of 3.6 linear metres for a 100mm x 100mm x 25mm radius.
- Form the cove to the desired radius using a suitable coving trowel, allow to cure for 18 to 24 hours at 25°C.
- Abrade the vertical surface of the cove to remove surface imperfections.
- Overcoat the coving with the proposed flooring sealer.

**Technical Approval:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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