

POLYURETHANE FLOOR SCREED SYSTEM STONCLAD UT WITH STONKOTE HT4

Ref # Date

REQUIREMENTS:

Proposed uniformly-coloured flooring system for concrete floors, where a 6mm high impact, thermal shock resistant, self-priming polyurethane urea mortar screed is required. The system will be exposed to fats, oils and chemicals typically associated within the food service industry as well as occasional impact from pots and pans at a maximum continuous temperature of 93°C and 121°C intermittent.

SCOPE OF WORK (BOQ):

Apply **Stonclad UT** as a 6mm high impact, thermal shock, chemical resistant, self-priming polyurethane urea mortar screed and seal with **Stonkote HT4**. Inclusive of surface preparation, apply **Stonclad UT** and **Stonkote HT4** in strict accordance with the manufacturer's product data sheet.

THE STONCLAD UT SYSTEM CONSISTS OF:

	Product	Kit Size	Theoretical Coverage
Screed	Stonclad UT	12 Litre kit	2.4m ² /kit
Broadcast	Stonhard 6222 / 6221	25kg	
Sealer Coat (2 coats required)	Stonkote HT4	2 Litre kit	3 to 4m ² /litre/coat

TEMPERATURE:

Apply **Stonclad UT** 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.

APPLICATION PROCEDURE FOR STONCLAD UT POLYUREA SCREED – 5mm:

- Apply the material with a 15mm notched handheld trowel, ensuring a theoretical coverage of 3m² per 12 litre kit at 4mm wet film thickness.
- Within 5 minutes of spreading the material, applicators with spiked shoes are to spike the spread **Stonclad UT** with a spike roller for a maximum of 5 minutes at first with increased pressure, attempting to feel the rough texture of the concrete below, steadily decreasing the pressure by lightly spiking, floating the pigmented resin to the surface to giving a uniform level gloss appearance. New batches of material should always be incorporated within 3 to 4 minutes into the wet edge of the previously trowelled screed to ensure no “cold join” lines appear.
- Using the **Stonhard 6221** aggregate for fine texture or **Stonhard 6222** aggregate for medium texture, broadcast the aggregate into the wet mortar by means of an electric spray caster to allow the broadcast aggregate to fall from

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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height, onto the uniform wet level resin surface. Blind the surface of the **Stonclad UT** screed with the selected aggregate ($\pm 2\text{kg/m}^2$) evenly to rejection, ensuring no wet area remain on the surface. Allow to cure for a minimum of 8 hours at 25°C.

- Sweep and vacuum all excess aggregate using the edge of a steel finishing trowel, to reduce to profile. Vacuum to remove all traces of de-nibbed aggregate.
- Once cured, de-nib the surface with the edge of a steel finishing trowel to reduce the profile, ensuring no sharp pores are left.
- Sweep and vacuum all excess and traces of de-nibbed aggregate.

SEALING:

OPTION 1: Transfer mixed material into a paint tray and, using a medium nap roller, dip and roll the Stonkote HT4. The roller should be saturated with sealer at all times. This will smooth and level the sealer to achieve a uniform texture and appearance.

OPTION 2: Stonkote HT4 is applied with a rubber squeegee and backrolled with a medium nap roller. The roller is used to remove squeegee lines and smooth out the surface, leaving a slightly textured, mild, non-slip finish. A brush may be used where necessary.

- After 4 to 5 hours at 25°C, apply a second coat of **Stonkote HT4** as per the previous coat. Theoretical coverage of 3 to 4m²/litre/coat (2 coats required). Coverage will vary depending on coarseness of broadcast aggregate used and desired finish.
- Remove the steel nails, chalk line the joint markings and use a dedicated joint cutting machine such as the Hilti to saw cut through the cured Stonclad UT, to suit the engineer's design joint detail. Fill the joints with the required Pro-Struct joint sealant as determined by the specific requirements of the project (see engineer's detail).

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

ARCHITECT DETAIL:

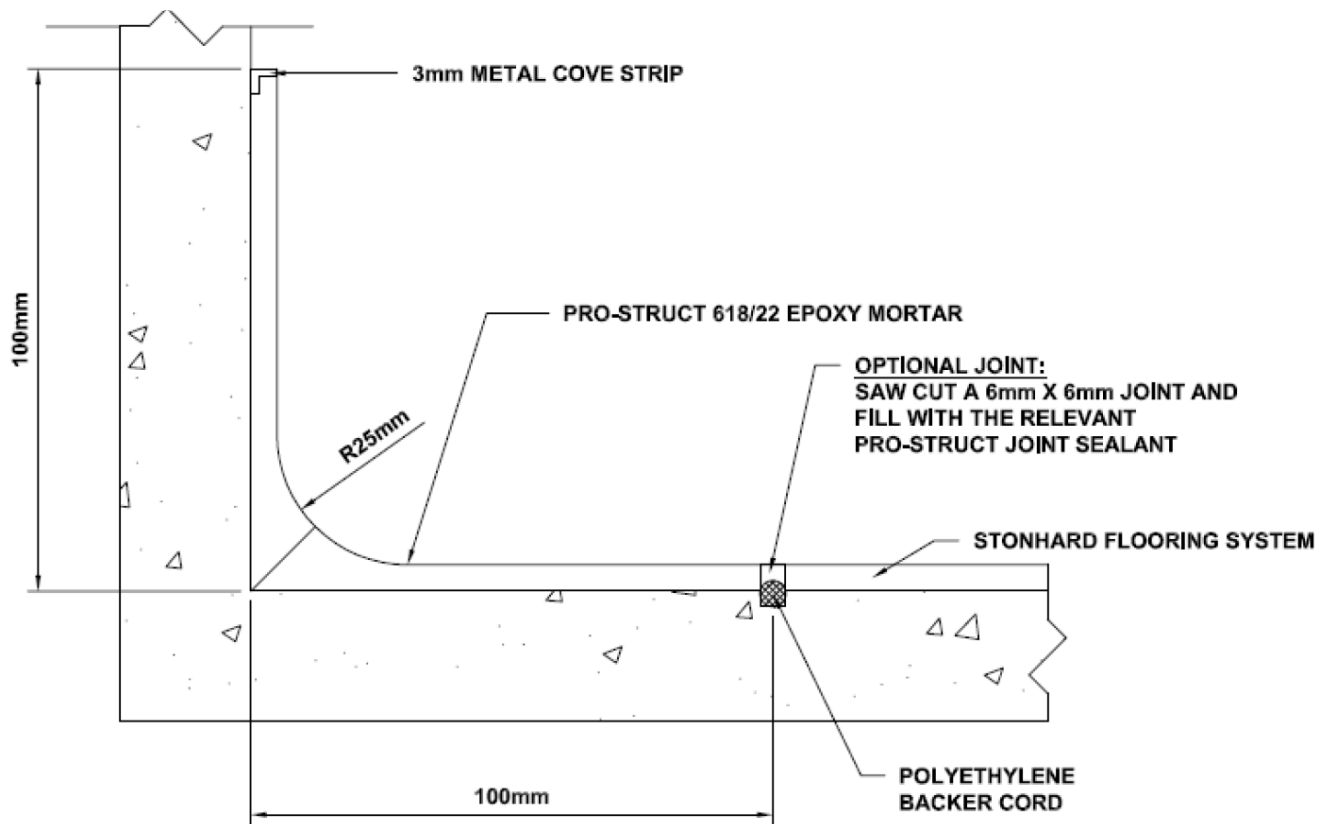
- Coving
- Joints

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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 spreading 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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