

POLYURETHANE FLOOR SCREED SYSTEM STONCLAD UT WITH STONCHEM 700T

Ref # Date

REQUIREMENTS:

Proposed uniformly-coloured flooring system for concrete floors, where a 5 to 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 5 to 6mm high impact, thermal shock, chemical resistant, self-priming polyurethane urea mortar screed and seal with **Stonchem 700T**. Inclusive of surface preparation, apply **Stonclad UT** and **Stonchem 700T** 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 at 5mm
Broadcast	Stonhard 6222 / 6221	25kg	2kg/m ²
Sealer Coat (2 coats required)	Stonchem 700T	8 Litre kit	25m ² at 300µm

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 2.4m² per 12 litre kit at 5mm 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

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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.

PRIMING:

- Vacuum the substrate before priming and ensure that the surface is dry.
- The use of **Stonchem 700/800 series primer** is necessary in all applications of **Stonchem 701**. This ensures maximum product performance (see **Stonchem 700/800 series primer** product data sheet for details).
- NOTE: **Stonchem 700/800 series primer** must be tack-free prior to application of the **Stonchem 700** series basecoat.

APPLICATION:

Basecoat:

- After allowing the primer to cure, mix the peroxide and resin in a 5 litre mixing bucket using a heavy-duty, slow-speed drill (400 to 600 rpm) with a mixing blade for 1 minute.
- Pour the material onto the floor and spread out with a notched squeegee.
- Backroll the area with a medium nap roller to remove squeegee lines using long roll strokes to decrease the visibility of roller lines.
- For vertical surfaces, pour a bead of material along the base of the wall.
- Using a medium nap roller, roll the material onto the wall.
- The wet film thickness of the coating is 250 to 300µm. Check the thickness with a wet film gauge.

Topcoat:

- After allowing the primer to cure, mix the peroxide and resin in a 5 litre mixing bucket using a heavy-duty, slow-speed drill (400 to 600 rpm) with a mixing blade for 1 minute.
- Pour the material onto the floor and spread out with a notched squeegee.
- Backroll the area with a medium nap roller to remove squeegee lines using long roll strokes to decrease the visibility of roller lines.
- For vertical surfaces, pour a bead of material along the base of the wall.
- Using a medium nap roller, roll the material onto the wall.
- The wet film thickness of the coating is 250 to 300µm. Check the thickness with a wet film gauge.

REFERENCE SAMPLE:

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

ARCHITECT DETAIL:

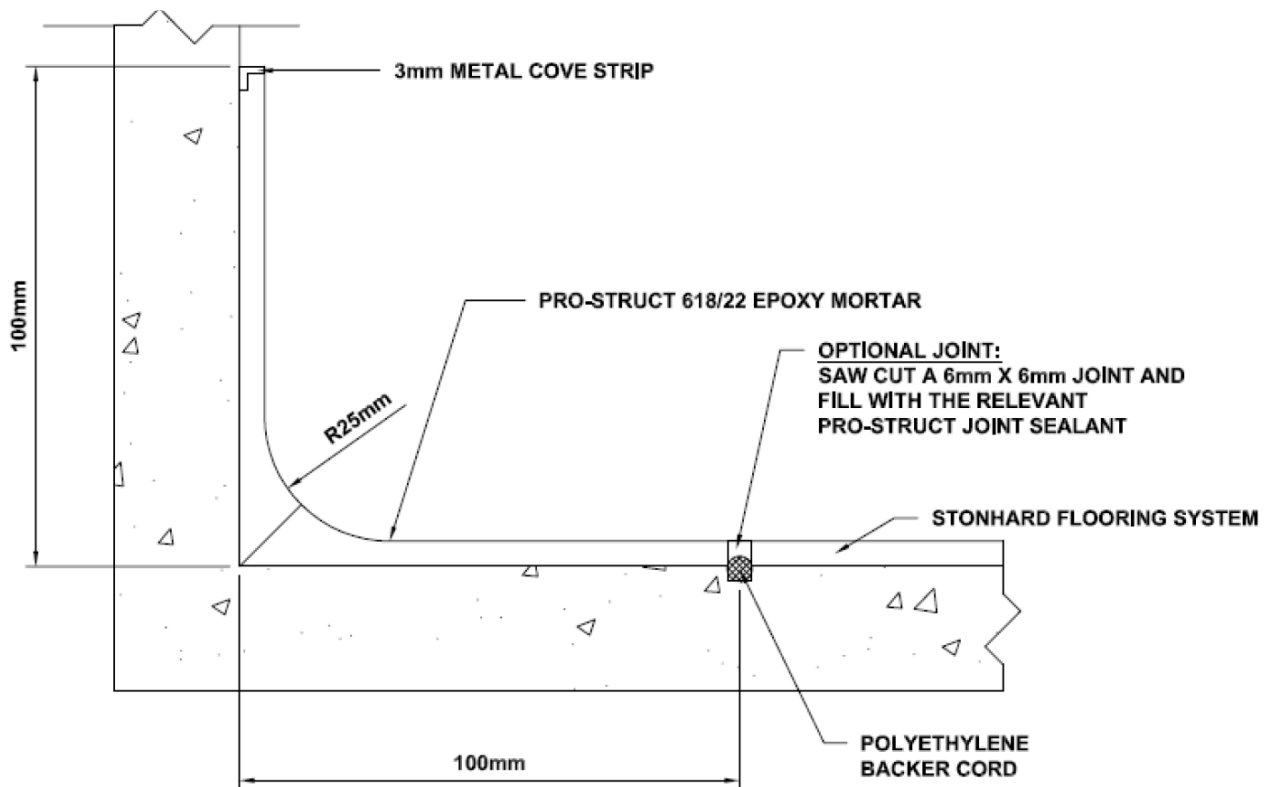
- Coving
- Joints

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COVING:



APPLICATION PROCEDURE FOR EPOXY MORTAR COVERED SKIRTINGS:

- Epoxy mortar covered 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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