

POLYURETHANE FLOORING SCREED SYSTEM STONSHIELD UTS

Ref # Date

REQUIREMENTS:

Proposed decorative flooring system for concrete floors, where a 5 to 6mm high impact, thermal shock resistant, self-priming polyurethane urea mortar screed blinded with coloured aggregate is required and where the floor will be exposed to fats, oils and chemicals typically associated within the food service industry as well as occasional impact and abrasion at a maximum continuous temperature of 93°C and 121°C intermittent at (location).

SCOPE OF WORK (BOQ):

Apply **Stonshield UTS** as a 5 to 6mm high impact, thermal shock resistant, self-priming polyurethane urea mortar screed blinded with a coloured aggregate and sealed with a clear sealer. Inclusive of surface preparation, apply **Stonshield UTS** in strict accordance with the manufacturer's product data sheet.

THE STONSHIELD UTS SYSTEM CONSISTS OF:

	Product	Kit Size	Theoretical Coverage
Screed	Stonclad UT Base, Activator & Aggregate	12 Litre unit	2.4m ² /kit at 5mm
	Stonclad UT C2 Pigment Pack	-	-
Coloured Broadcast	Stonhard 981C Pigmented Aggregate	25kg	2 to 3kg/m²
Sealer	Stonkote 787	15 Litre	3.3m²/litre
Sealer	Stonkote CE4 (optional if a UV stable finish is required)	5 Litre	5.0m²/litre

TEMPERATURE:

Apply Stonshield UTS only in temperatures ranging between 16°C and 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 scarifying or vacublasting to expose the aggregate and open all voids. Remove thin coatings, reduce or smooth the surface profile – 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.

APPLICATION:

- 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 should spike the Stonshield UTS with a
 spiked 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 to float the pigmented resin to 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.



- to give 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 **Stonshield 981C** aggregate, broadcast onto the wet mortar to allow the broadcast aggregate to fall from height onto the uniform wet level resin surface. Blind the surface of the **Stonshield UTS** screed with the selected aggregate (± 2kg/m²) evenly to rejection, ensure no wet areas remain on the surface. Allow to cure for a minimum of 8 hours at 25°C.
- Sweep and vacuum all excess aggregate from the surface, de-nib the sharp edges of the aggregate using the edge
 of a steel finishing trowel, to reduce the profile. Vacuum to remove all traces of de-nibbed aggregate, prior to
 sealing with Stonkote 787.

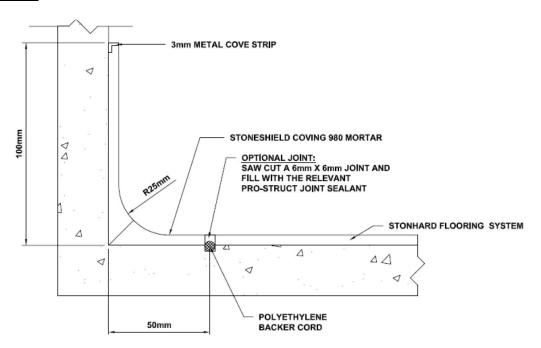
SEALING OF STONSHIELD UTS:

- Mix the entire contents of Stonkote 787 kit mechanically for 4 minutes using a drill fitted with a spiral impeller.
- Apply a coat of Stonkote 787 by pouring the entire contents in a line at the furthest point from the exit and spread
 evenly with a white squeegee, ensuring that for fine texture (theoretical coverage 2m²/litre) and for medium texture
 a theoretical coverage of 3.3m²/litre.
- **UV-stable Sealer:** Apply 2 coats of **Stonkote CE4** wet-on-wet using a non-marking rubber squeegee followed by rolling with a looped roller at a theoretical coverage of 5m²/litre.
- For medium texture, 2 coats is applied using a white rubber squeegee and then rolled using a looped roller. For a smoother texture, 2 coats of sealer are applied using a steel squeegee and then rolled using a looped roller. Allow to cure for 6 to 8 hours at 25°C.
- Remove the steel nails, chalk line the joint markings and use a dedicated joint cutting machine to saw-cut through the cured **Stonshield UTS**, to suit the engineer's design joint detail. Fill the joints with the required Stonhard joint sealant as determined by the specific requirements of the project (see engineer's detail).

REFERENCE SAMPLE:

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

COVING:



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REFER TO THE LATEST PRODUCT DATA SHEETS BEFORE PRICING OR COMMENCING APPLICATION, FOR ADDITIONAL INFORMATION AND CAUTIONS CONCERNING PRODUCT USAGE.



APPLICATION PROCEDURE FOR EPOXY MORTAR COVED 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 **Stonshield 980** Resin A & B at a theoretical coverage of 20 linear metres x 150mm wide per 1 litre kit.
- Mix the 2.5 litre kits of Base and Activator of Stonshield 980 Resin for 2 minutes using a JB blender. Add a 5 litre measured bucket (8kg) of Stonshield 981C aggregate and mix for a further 2 minutes. The yield of this kit is 6 litres. Using a steel trowel, apply the mixed mortar to the wet primed concrete and plastered surfaces to a theoretical spread rate of 10 linear metres for a 50mm x 100mm x 25mm radius.
- Form the cove to the desired radius using a suitable coving trowel, allow to cure for 4 to 8 hours at 25°C.
- Abrade the vertical surface of the cove to remove surface imperfections.
- Overcoat the coving with Stonkote 787 or the specified sealer.

Technical Approval:				
Date:				

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