PRODUCT DESCRIPTION
Stonshield SLT is a nominal 2 to 3mm thick flooring system with a decorative, slip resistant surface. Its slip resistant surface remains stain resistant and easy to clean.

USES
Stonshield SLT is ideally suited for use in research facilities, correctional institutions, hospitals and healthcare facilities, educational facilities and a wide variety of light manufacturing areas.

SYSTEM OPTIONS
Cove Base
To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 5 to 15cm are available – refer to Stonshield 980 Coving Resin.

Standard or Medium Texture
Stonshield Sealer is applied at a thickness that will produce the desired texture.

PACKAGING AND COVERAGE
Stonshield SLT is packaged as a system utilising Stonprime 739 for priming, coloured quartz binding and sealing.

Priming: SL Primer Resin Part A, B & C (20 litre kit), 3m²/litre

Primer Broadcast Aggregate: 25kg Stonhard 6221, 2kg/m²

Quartz Binding: SL Primer Part A, B & C (20 litre kit), 2m²/litre

Coloured Quartz Aggregate: 25kg Stonshield 981C, 2kg/m². Available in tweed patterns and solid colours. Custom colours are available on request.

Sealer Interior: Stonkote 787 Resin Parts A + B (5 litre kit), medium texture 4m²/litre, fine texture 2m²/litre

Sealer Exterior: Stonkote CE4 Resin Parts A + B (5 litre kit), medium texture 4m²/litre, fine texture 2m²/litre

TYPICAL PROPERTIES AT 25°C

Tensile Strength ASTM C-307	11 MPa
Flexural Strength ASTM C-580	27 MPa
Flexural Modulus of Elasticity ASTM C-580	6.9 x 10^3 MPa
Hardness ASTM D-2240, Shore D	85-90
Impact Resistance ASTM D-2794	> 18 Nm
Abrasion Resistance ASTM D-4060, CS-17	0.06 gm max weight loss
Cure Rate at 25°C	12 Hours foot traffic 24 Hours normal operation
Flammability ASTM E-648	Class I
Thermal Coefficient of Linear Expansion ASTM C-531	2.5 x 10^{-5} mm/mm/°C
Water Absorption ASTM C-413	0.1%
VOC Content	Undercoat: 34 g/l Stonkote CE4: 34 g/l

NOTE: The above physical properties were measure in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory, values obtained on the field applied materials may vary.

NOTE: Staining may occur depending on length of exposure time, chemical concentration and temperature.

NOTE: Coverage rates shown are theoretical. Actual coverage rates may vary. Make necessary allowances for the condition of the surface to be coated, working conditions, waste, spillage, experience level and skill of the installers, etc.

REFERENCE SAMPLE
A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverages and workmanship.

STORAGE CONDITIONS
Store all components between 16 to 32°C in a dry area. Avoid excessive heat and do not freeze.

SHELF LIFE
Refer to individual components for shelf life.

TOUGH WEAR RESISTANT MATT SEALER
To create a uniform appearance which minimise the appearance of substrate blemishes, overcoat with Stonseal CF7, as per the product data sheet instructions.

EQUIPMENT
Variable speed mechanical mixer and impeller
White rubber or steel squeegee
Looped roller
Aggregate spray caster
Flood lights at floor level
Brooms and vacuum unit

PLACEMENT GUIDELINES

SCOPE OF WORK (BOQ)

Apply Stonshield SLT as a 2 to 3mm semi self-levelling textured colour decorative floor system. The system is made up of multiple layers of primer, coloured quartz and sealer coat. Inclusive of surface preparation, apply Stonshield SLT in strict accordance with the manufacturers product data sheet.

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 grinding or vacu-blasting to expose the aggregate and open all voids. Remove thin coatings, reduce or smooth the surface profiles, it will not give a surface pattern suitable for coatings unless followed by etching or vacu-blasting. 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 Product Data Sheet for additional surface preparation requirements.

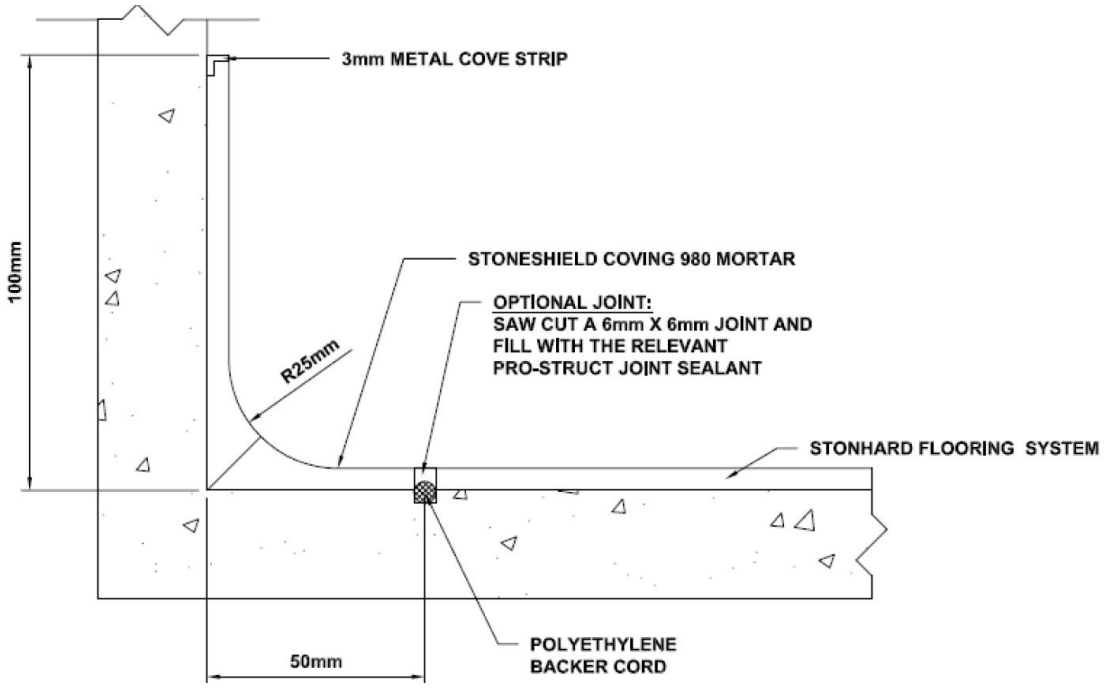
PRIMING AND APPLICATION

- **Priming and Patching:** Mix SL Primer Part A and B for 90 seconds in a 25 litre pail using a 600 RPM high torque mixer, fitted with a spiral impeller. Then add the Part C and mix for a further 90 seconds. Do not hand mix.
- Apply 2 coats of SL Primer wet-on-wet evenly to the floor with a squeegee at a theoretical coverage of 3m² per litre.
- Broadcast 6221 Aggregate to rejection into the wet primer at a theoretical coverage of 2kg/m² using a spraycaster. Allow a minimum of 6 hours at 25°C to cure, sweep off all excess aggregate and discard. Vacuum off any unbounded aggregate.
- Apply a further coat of SL Primer evenly with a squeegee followed by rolling with a looped roller at a theoretical coverage of 2m²/litre. Broadcast 981C Aggregate to rejection into the wet SL Primer at a theoretical coverage of 2kg/m² using a spraycaster. Allow a minimum of 6 hours at 25°C to cure, sweep off all excess slurry aggregate and discard. Vacuum off any unbounded aggregate. Ensure dirt is not walked into the floor prior to sealing.

SEALING OF STONSHIELD SLT

- The use of floor lights is critical to ensure even spread of the sealer is achieved.
- Standard sealer indoors for no UV exposure.
- Apply Stonkote 787 Sealer using a non-marking rubber squeegee followed by rolling with a looped roller at a theoretical coverage of 2m²/litre. Final texture can be adjusted by increasing or decreasing the film thickness.
- **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 2m²/litre. Final texture can be adjusted by increasing or decreasing the film thickness.

COVING



APPLICATION PROCEDURE FOR STONSHIELD 980 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 lt 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 spreading 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.

RECOMMENDATIONS

- DO NOT attempt to install material if temperature of SLT 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”.
- Specific information regarding chemical resistance is available in SLT Chemical Resistance Guide.
- Material Safety Data Sheets on SLT 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.