

STONSHIELD® SLT

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: Stonprime 739 Resin Part A, B & C (20 litre kit), 3m²/litre

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

Quartz Binding: Stonprime 739 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: Stonprime 739 Resin Parts A + B (14 litre kit), medium texture 4m²/litre, fine texture 2m²/litre

Sealer Exterior: Stonkote CE4-969 Resin Parts A + B (5 litre kit), medium texture 4m²/litre, fine texture 2m²/litre

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

TOUGH WEAR RESISTANT MATT SEALER

To create a uniform appearance which minimise the appearance of substrate blemishes, overcoat with Stonseal GS7, # 968, 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

REFERENCE SAMPLE

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

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 to 90
Impact Resistance (ASTM D-2794)	> 18Nm
Abrasion Resistance (ASTM D-4060, CS-17)	0.06 gm max weight loss
Cure Rate at 25°C	12 hours for foot traffic 24 hours for 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	Stonshield Undercoat: 34g/l Stonkote CE4: 34g/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.

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 PATCHING:

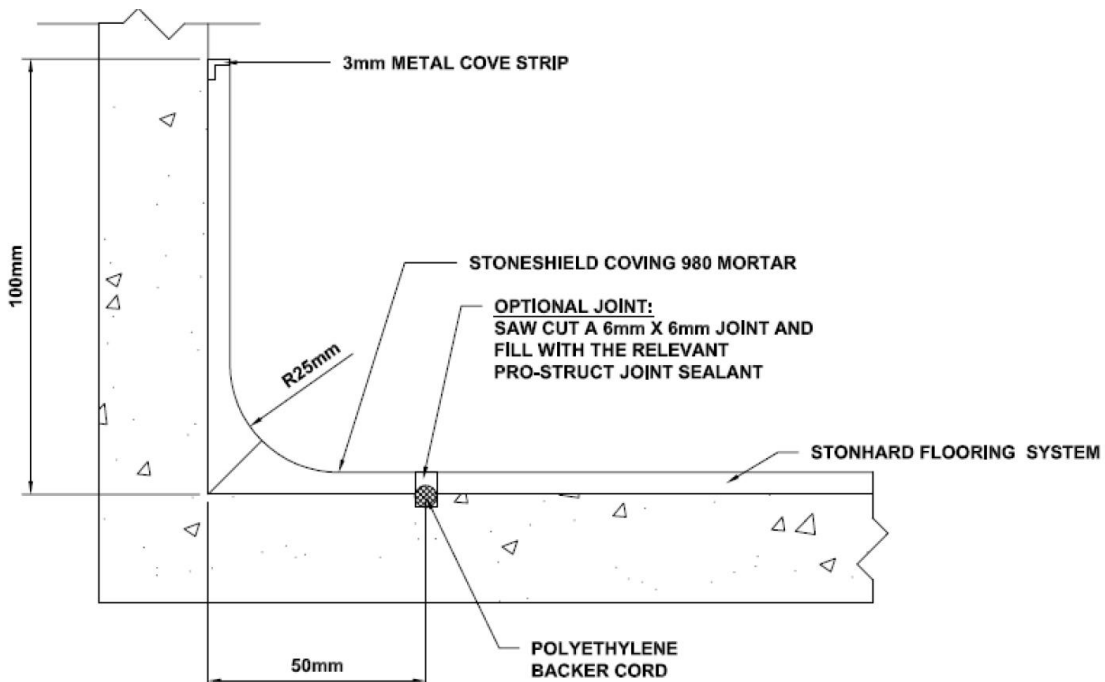
PRIMING AND APPLICATION:

- **Priming and Patching:** Mix Stonprime 739 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 Stonprime 739 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 sprayer. 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 Stonprime 739 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 Stonprime 739 at a theoretical coverage of 2kg/m² using a sprayer. 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 2 coats of Stonprime 739 Sealer 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.
- **UV-Stable Sealer:** Apply 2 coats of Stonseal CE4-969 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 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 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 Stonseal 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.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact StonCor Africa to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Africa quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data, if shown, are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY STONCOR AFRICA, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.