

SELF-LEVELLING TEXTURED FLOORING

SEAMLESS, FREE-FLOWING SLIP RESISTANT 3MM FLOOR SYSTEM COLOUR FAST, DECORATIVE, TWEED APPEARANCE AGGREGATES COST-EFFECTIVE ALTERNATIVE TO TILES

PRINCIPAL USES

Engineered with a textured surface for slip resistance in commercial and industrial applications. It is ideally suited for use in: research facilities, correctional institutions, hospitals and health care facilities, educational facilities and a wide variety of light manufacturing areas. Dependant on ease of cleanability and slip resistant frequency the sealer is applied at a thickness that will produce the desired texture.

PACKAGING

SLT-SA is packaged as a system, consisting of:

PRIMER/UNDERCOAT: STONPRIME 739

20lt Kit. Base + Activator + Fine Aggregate
Refer to Stonprime 739 product data sheet on product use.

AGGREGATE, STONSHIELD SLT 981C

25kg Bag is available in tweed patterns and solid colours. Custom colours are available on request.

SEALER INTERIOR, STONSEAL 787 / EXTERIOR, STONSEAL CE4-969

5lt Base + Activator
Refer to Stonseal 787 or Stonseal CE4-969 product data sheet on product use.

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.

COVERAGE

Primer Layer Stonprime 739	3-4m ² /lt
First Broadcast Aggregate Layer Stonshield SLT 981C	1-2kg/m ²
Undercoat Layer Stonprime 739	2-3m ² /lt
Second Broadcast Aggregate Layer Stonshield SLT 981C	1-2kg/m ²
Sealer for Medium Texture, Stonseal 787 Rubber Squeegee	3-4m ² /lt/coat
Sealer for Fine Texture, Stonseal 787 Steel Squeegee	2-3m ² /lt/coat
Matt Sealer, Stonseal GS7	10-14m ² /lt/coat

REFERENCE SAMPLE

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

January 2014 SA replaces February 2013 SA

(Stonshield SLT-SA)

TYPICAL PROPERTIES AT 25°C

Compressive Strength ASTM C-579	62 MPa
Tensile Strength ASTM C-307	11 MPa
Flexural Strength ASTM C-580	27 MPa
Flexural Modulus of Elasticity ASTM C-580	0,7 x 10 MPa
Hardness ASTM D-2240 / Shore D Durometer	85-90
Bond Strength ASTM D-4541	>2.7 MPa (100% concrete failure)
Abrasion Resistance ASTM D-4060, CA-17 wheel	0.06gm max weight loss
Coefficient of Friction ASTM D-2047	Medium Texture -0.7
Flammability ASTM D-635 max	Self Extinguishing Extent of burning 6mm
Thermal Coefficient of Linear Expansion – ASTM C-531	1.8 x 10.5 mm/mm°C
Water Absorption ASTM C-413	0.1%
Heat Resistance Limitation	Continuous 60°C
Cure Rate	12 hours foot traffic 24 hours operations
Application Temperature	15°C to 35°C
VOC Content	Undercoat 50g/lt Sealer 34g/lt

EQUIPMENT

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

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APPLICATION SPECIFICATION FOR STONSHIELD SLT-SA

SUBSTRATE PREPARATION

Stonshield SLT-SA is suitable over properly prepared concrete surfaces that do not require renovation. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e. abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with Carboclean 250 and Carboclean 252 and rinsing with clean water. The surface must show open pores throughout with main aggregate in concrete exposed, and have a sandpaper texture. Substrate moisture content prior to coating should be below 5% and substrate tensile strength above 2 MPa. For recommendations of additional information regarding substrate preparation, please refer to surface preparation data sheet or contact StonCor Africa Technical Service Department.

MIXING

Empty the entire contents of the Base and Activator components into a clean, dry mixing container. Mix thoroughly for 2 minutes with an impeller fitted to a variable speed drill. Transfer material into another mixing container, scraping the sides and bottom of the container and remix for another 2 minutes. This step is critical to ensure complete cross-linking of components is achieved. **Do not aerate mix nor mix by hand.**

APPLICATION

1. Stonprime 739 is mixed and applied 2 coats wet-on-wet evenly to the floor with a squeegee. Repair "blowholes" and depressions with Pro-Struct 30/35NS. Aggregate is broadcasted into the wet primer using a special StonCor Spraycaster. Allow 6 hours to cure and sweep off excess aggregate for re-use. Vacuum off any unbounded aggregate.
2. Undercoat, Stonprime 739 is mixed and applied evenly with a squeegee, then rolled with a looped roller. For a 2mm system, the undercoat is applied with a soft rubber squeegee. For a 3mm system, a steel squeegee is used.
3. Aggregate is broadcast into the freshly rolled undercoat using a special StonCor Spraycaster to ensure even distribution of the aggregate. Allow at least 6 hours to cure.
4. Sweep the floor to remove all loose aggregate particles. Scrape the surface with the edge of a steel trowel to remove any high spots. Re-sweep and vacuum the floor. Ensure workers do not bring dirt onto the floor.

5. Stonseal 787 sealer is mixed and applied. For medium texture, two coats of sealer are applied wet-on-wet using a rubber squeegee and then rolled using a looped roller. For a smoother texture, two coats of sealer are applied wet-on-wet using a steel squeegee and then rolled using a looped roller.
6. The use of floor lights are critical to ensure even spread of sealer is achieved.
7. If a matt finish is required, apply 2 coats of Stonseal GS7.

Please refer to SLT-SA Directions for further detail.

RECOMMENDATIONS

- DO NOT attempt to install material if temperature of SLT-SA components and substrate are not within 16-30°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-SA Chemical Resistance Guide".
- Material Safety Data Sheets on SLT-SA 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.

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES



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