

SELF-LEVELLING SMOOTH FLOORING

**SEAMLESS, FREE-FLOWING IMPERVIOUS 2-3mm FLOORING SYSTEM
SUPERIOR IMPACT, TOUGHNESS & CHEMICAL RESISTANCE
COST-EFFECTIVE ALTERNATIVE TO VINYL AND CERAMIC TILES
EASY CLEANING, AESTHETICALLY PLEASING SURFACE WHICH CAN BE MADE DECORATIVE WITH STONFLAKE CONTRASTING COLOURS**

PRINCIPAL USES

Stonlux SL is specifically designed for those interior applications where a smooth, seamless, dense, impervious finish with good chemical resistance is required. Stonlux SL is a logical choice in applications such as clean rooms, laboratories and electronic assembly areas. The easy cleaning and low maintenance of the system lends itself to dry processes in the food and packaging industry, dining halls, hospitals and correctional facilities.

Exterior Exposure: Coating will chalk and discolour.

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

SYSTEM OPTIONS: MOISTURE BARRIER

To ensure long-term adhesion to concrete slabs in the absence of a proper vapour barrier, the use of Stonprime 786 O.P.R. system is required with strict adherence to application instructions as indicated on the product data sheet.

PRIMER AND SKIM COAT

To fill substrate voids and detect the possibility of "outgassing", the use of Stonprime SL 739 is essential. If blow holes are detected in the primer they should be skimmed level with Pro-Struct 30/35NS Quickset.

COVE BASE

To provide for an integral seal at the joint between the floor and the wall, Pro-Struct 618/22 Cove Bases in heights from 5-15cm may be specified.

MILD NON-SLIP

To create an easy-cleaning clear non-slip surface overcoat with Stonseal 722 as per the product data sheet instructions.

TOUGH WEAR RESISTANT MATT SEALER

To create a uniform appearance which minimize the appearance of substrate blemishes, overcoat with Stonseal GS7, # 968, as per the product data sheet instructions.

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

STONFLAKE

Partially broadcast contrasting colours of Stontec 798 to create an attractive economical floor system and overcoat with Stonseal GS7 Matt Sealer as per the product data sheet instructions.

PACKAGING AND COLOUR RANGES

Stonlux SL-SA is packaged in 20 litre units consisting of Stonlux 976 Base and Stonlux 976 Activator. Nine standard colours are available as per the flooring colour card.

Each 20 litre until will cover approximately:

10.0m² when applied 2mm thick

6.6m² when applied 3mm thick

January 2014 SA replaces March 2013 SA

(Stonlux SL-SA)

TYPICAL PROPERTIES AT 25°C

Tensile Strength ASTM D-638	13.1 MPa
Flexural Strength ASTM D-790	26.7 MPa
Flexural Modulus of Elasticity ASTM D-790	3.6 x 10 ³ MPa
Hardness ASTM D-2240, Shore D	80 to 85
Bond Strength ASTM D-4541	>2.7 MPa (100% concrete failure)
Indentation MIL-D-3134F	Pass
Abrasion Resistance ASTM D-4060, CS-17	0.1gm max weight loss
Coefficient of Friction (Dry*) ASTM F-1679	0.81
Flammability ASTM D-635	Self-extinguishing Extent of burning 6mm max
Thermal Coefficient of Linear Expansion (ASTM C-531)	5.1 x 10 ⁻⁵ /mm°C
Water Absorption ASTM C-413	0.2%
Heat Resistance Limitation	Continuous 60°C Intermittent 93°C
Cure Rate	16 Hours surface cure 48 Hours for traffic 7 Days full cure
Pot Life	20-30 minutes
Shelf Life	1 Year in sealed container
Application Temperature Range	16-35°C
Dew Point	Substrate to be 2°C above dew point
VOC Content	27g/litre

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.

APPLICATION SPECIFICATION FOR STONLUX SL-SA SYSTEM

SUBSTRATE PREPARATION

Stonlux SL-SA with its appropriate primer is suitable over properly prepared concrete surfaces which are level and do not require renovation. The substrate must be dry and free of all wax, grease, oils, fats, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e. abrasive blasting or diamond grinding. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Carboclean 250 and Carboclean 252) and rinsing with clean water. The surface must show open pores throughout and have a coarse sandpaper texture. Substrate moisture content should be below 5% and tensile strength above 2 MPa. For recommendations or additional information regarding substrate preparation, please contact Pro-Struct Technical Service Department.

PREPARING STONHARD FLOORING SYSTEMS OR RECOATING

Before coating a Stonhard floor, all trowel marks and surface imperfections must be removed to produce a smooth surface. Grind the floor using a floor grinder with medium stones and vacuum using an industrial wet/dry vacuum to remove all dust particles. The Stonhard floor is now ready to be coated.

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.** If smaller units are required, pre-measure and mix the components at the ratio of Base : Activator, 4 : 1 by volume.

PRIMING AND PATCHING

1. Apply 2 coats wet-on-wet Stonprime SL-739 Solvent-free Primer at a total of 60-70m²/20lt kit with a rubber squeegee. Remove puddles and squeegee lines with the squeegee. **DO NOT BACKROLL.**
2. If the substrate is porous and contains no DPC, it is recommended to apply Stonprime 786 OPR prior to Stonprime SL-739 as per the Stonprime 786 OPR data sheet.
3. Sealed surface should be free of air holes or depressions. If necessary, patch cracks and blowholes with Pro-Struct 30/35NS Quickset Epoxy Paste.
4. Allow to cure for 8 hours at 25°C, and within 16 hours before overcoating.

APPLICATION

1. Apply one coat of Stonlux SL-SA at specified spread rate by pouring the mixture onto the floor and raking out using a 5-7mm notched trowel, spreading evenly at a thickness of between 2mm-3mm.
2. Utilising spiked shoes, deaerate and level by rolling the coating with a spiked roller for up to 20 minutes after the application.

3. Allow to cure for 16-24 hours.
4. An easy cleaning mild non-slip finish can be achieved by overcoating with Stonseal 722 Non-slip Clear Sealer at approximately 8m²/litre/coat.
5. An attractive finish can be achieved by partially broadcasting Stonflake 798 onto the wet surface with a low pressure blower and sealing with Stonseal GS7. Allow to cure.
6. The use of floor lights is critical during application to ensure even spread and levelling is achieved.
7. Detailed instructions on application and installation can be found in Stonhards Guide, "Stonlux SL Directions".

CURING

At normal temperature conditions the coating system can be exposed to light traffic after 24 hours. Excessive traffic, aqueous cleaning and exposure to aggressive chemicals should only take place after seven days when full cure has been achieved.

RECOMMENDATIONS

- DO NOT attempt to install material if temperature of 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 the Chemical Resistance Guide.
- Material Safety Data Sheets 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



StonCor Africa (Pty) Ltd

Co. Reg. No. 1996/001848/07

Tel: +27 (0)11 254 5500

Website: www.stoncor.co.za

E-mail: stoncorsa@stoncor.com