

PRODUCT DESCRIPTION

Stonlux SL is a liquid rich, free-flowing epoxy flooring system. The system consists of a resin, curing agent and graded coarse aggregates. It is available in 2 mm and 3 mm thicknesses. Stonlux SL cures to a hard, aesthetically pleasing surface that exhibits excellent impact and chemical resistance.

USES, APPLICATIONS

Stonlux SL is formulated for ease of maintenance, superior impact resistance, toughness and reduced gloss. Stonlux SL is specifically designed for those applications where a smooth, seamless, dense, impervious finish with good stain resistance is required. Stonlux SL is a logical choice in applications such as clean rooms, laboratories and electronic assembly areas.

SUBSTRATE

Stonlux SL, with the appropriate primer, is suitable for application over concrete, wood or metal. Not recommended on asphalt, brick, quarry tile, mastic, or painted surfaces. These must first be removed by mechanical means to expose the substrate prior to priming and overlayment.

SYSTEM OPTIONS

Moisture Barrier

To ensure long-term adhesion to concrete slabs in the absence of a proper vapour barrier, the use of Stonhard's Stonfil OP2 grouting system is required with strict adherence to application instructions.

Cove Base

To provide for an integral seal at the joint between the floor and the wall, Stonclad Cove Bases in heights from 2 to 6 in./5 to 15 cm may be specified.

PACKAGING

Stonlux SL is packaged in units for easy handling. Each unit consists of:

0.50 carton containing:

4 foil bags of Part A (curing agent)

4 poly bags of Part B (resin)

2 individual bags of Part C (aggregate)

COVERAGE

Each unit of Stonlux SL will cover approximately:

50 sq. ft./4.65 sq. m at 80 mil/2 mm

40 sq. ft./3.72 sq. m at 120 mil/3 mm

Note: Since Stonlux SL is a free-flowing product, it is important to maintain the recommended coverage per unit to ensure that the proper thickness is obtained.

PHYSICAL CHARACTERISTICS

Tensile Strength	1,900 psi (ASTM D-638)
Flexural Strength	3,860 psi (ASTM D-790)
Flexural Modulus of Elasticity	5.2×10^5 psi (ASTM D-790)
Hardness	80 to 85 (ASTM D-2240, Shore D)
Bond Strength	>400 psi (ASTM D-4541) (100% concrete failure)
Indentation	Pass (MIL-D-3134F)
Abrasion Resistance	0.1 gm max. weight loss (ASTM D-4060, CS-17)
Coefficient of Friction (Dry*)	0.81 (ASTM F-1679)
Flammability	Self-extinguishing (ASTM D-635) Extent of burning 0.25 in. max.
Thermal Coefficient of	
Linear Expansion	5.3×10^{-5} in./in.°C (ASTM C-531)
Water Absorption	0.2% (ASTM C-413)
Heat Resistance Limitation	140°F/60°C (continuous exposure) 200°F/93°C (intermittent exposure)
Cure Rate	36 hours (@ 77°F/25°C) for foot traffic & light operations 48 to 72 hours for normal operations

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens.

*Due to the smooth nature of this product, Stonlux SL is only recommended in dry environments.

STORAGE CONDITIONS

Store all components of Stonlux SL between 60 to 85°F/16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

COLOUR

Stonlux SL is available in six standard colours. Refer to the Stonlux Colour Sheet. Custom colours are available upon request.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. 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 a heavy-duty industrial detergent (Stonkleen DG9) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

PRIMING

Apply Standard Primer to the substrate. Next, apply the first coat of SL Primer. Then, apply the second coat of SL Primer 30 minutes after beginning the first coat. Both the Standard Primer and the first coat of SL Primer must be wet while applying each coat of SL Primer. The primer system must be applied by squeegee and cure to a tack-free state before applying the Stonlux SL.

MIXING

1. Empty the entire contents of 2 foil bags of Part A (liquid) and 2 poly bags of Part B (liquid) into a mixing pail.
2. Place the mixing pail on a JB Blender (Product #87024) and activate the timer to start the 90 second blending cycle.
3. When the blender stops, reactivate the timer and immediately pour the entire contents of the 2 bags of Part C (aggregate) into the rotating pail. Allow the contents to mix for the complete 90 second cycle.
4. Just prior to pouring, mix the material with a slow-speed drill and a 2 to 5 gallon Jiffy Mixer for 30 seconds.

POT LIFE

After mixing, Stonlux SL will have a working time of approximately 30 minutes at 70°F/21°C. The working time will vary depending upon temperature.

APPLYING

1. Pour the mixed Stonlux SL onto the floor in a bead.
2. Distribute the material using the appropriate notched trowel or rake pertaining to the desired finished thickness.
3. Roll with a spiked roller.

For further details regarding mixing or applying of Stonlux SL, refer to the Stonlux SL Direction Sheet.

RECOMMENDATIONS

- DO NOT attempt to install the material if the temperature of the Stonlux SL components is above 85°F/30°C. Higher temperatures will cause the material to harden more quickly than desired. Conversely, if the temperature of the components is 65°F/18°C or lower, Stonlux SL will be stiff and hard to apply. Do not use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and other properties.**
- Application equipment must be cleaned immediately after use with scouring pads and warm, soapy water, or mineral spirits.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with rubber gloves. Use only with adequate ventilation.

NOTES

- Detailed instructions on application and installation can be found in Stonhard Stonlux SL Directions.
- Procedures for maintenance of the flooring system during operations are described in the Stonlux Cleaning Procedures.
- Specific information regarding chemical resistance is available in the Stonlux SL Chemical Resistance Guide.
- Material Safety Data Sheets on Stonlux SL are available upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

2/06
Rev. 05/09

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