

STONHARD

STONLUX® SL

PRODUCT DATA

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 popular choice for 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 vapor 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. When coating the coves you will need to use Stonkote GS4/HT4 or Stonseal PA7. Do not use the liquids from the flooring system to coat the coves.

PACKAGING

Stonlux SL is pre-packaged to eliminate on-site measuring.

One unit of Stonlux SL consists of:

- 2 foil bags of Amine
- 2 pails of Resin

2 individual bags of Part C aggregate

Stonlux SL liquids are packaged in a carton that contains 2 units of material, which is a total of 4 bags of amine and 4 pails of resin. Therefore, one unit of Stonlux SL consists of:

- 0.50 carton of Stonlux SL resin and amine liquids
- 2 individual bags of Part C aggregate.

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)
Hardness80 to 85 (ASTM D-2240, Shore D)
Indentation	Pass (MIL-D-3134F)
Abrasion Resistance01 gm max. weight loss (ASTM D-4060, CS-17)
Coefficient of Friction081 (dry) (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 Absorption02% (ASTM C-413)
Heat Resistance Limitation	140°F/60°C (continuous exposure) 200°F/93°C (intermittent exposure)
VOC Content20 g/l (ASTM D-2369)
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.

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.

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 1.5 years in the original, unopened container.

COLOR

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

SUBSTRATE

Stonlux SL, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

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 amine and 2 pails of resin into a mixing pail.
2. Place the mixing pail on a JB Blender 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 amine and resin as they may cause skin and/or eye irritation.
- The use of safety glasses and impervious gloves is required during mixing and application.
- 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 Stonkleen Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available in the Stonlux Chemical Resistance Guide.
- Safety Data Sheets for Stonlux SL are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with product application, 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.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.



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.

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