

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 a logical choice in applications such as clean rooms, laboratories and electronic assembly areas. Stonlux SL is specifically designed for those applications where a smooth, seamless, dense, impervious finish with good stain resistance is required.

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

- 1 unit contains:
- 2 cans of Hardener
- 2 cans of Resin
- 1 bags of Part C (aggregate)

COVERAGE

Each unit of Stonlux SL will cover approximately:

- 20 m² at 2 mm thickness
- 15 m² at 3 mm thickness

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 5 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 12 months in the original, unopened cans.

COLOR

Stonlux SL is available in 6 standard colors and Ral Colors. Refer to the Stonlux colour sheet. Custom colors are available upon request.

SUBSTRATE

Stonlux SL, with the appropriate primer, is suitable for application over properly prepared concrete that does not require renovation. In most cases, this will be new or very smooth concrete. For questions regarding other 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's representative or Technical Service.

Note: A flat level substrate is required for Stonlux SL application and cannot be installed over a pitched surface.

PRIMING

The use of the Standard Primer/SL Primer priming system is required for all applications of SL over concrete or wood. Metal substrates must be primed immediately following preparation with HT primer. The substrate must be free of voids and pinholes after priming and prior to the start of the Mortar application and the primer layer must not be cured for longer than 24 hours to ensure proper intercoat adhesion.

PHYSICAL CHARACTERISTICS

Tensile strength at break.....	18 N/mm ²
(ISO R527)	
Tensile modulus	1500 N/mm ²
(ISO R527)	
Flexural modulus on bending.....	480 N/mm ²
(UNI 7219)	
Compressive strength.....	>50 N/mm ²
(ASTM D-695)	
Compressive modulus	2200 N/mm ²
(ASTM D-695)	
Elongation at break	> 2%
Cure Rate.....	24 hours
(@ 23°C)	for Foot traffic & light operations
Full cure	7 days
Pot life	30 minutes
(@ 23°C)	

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.

MIXING

- Proper mixing is critical for the products to exhibit the proper application properties, cure properties and ultimate physical properties.
- Mechanical mixing is required for all components.
- See Stonlux SL Directions for further details.

APPLYING

- DO NOT attempt to install material if the temperature of Stonlux SL components and substrate are not within 16 to 30°C. The cure time and application properties of the material are severely affected by temperatures outside of this range. Never apply below 5 16°C. Substrate temperature must be at least 3°C above dew point.
- Standard/SL primer is mixed and applied with a squeegee and backroll application method and cured
- Stonlux SL selfleveler is mixed and applied with a rake and spike rolled

Refer to the Stonlux SL Directions for further detail.

NOTES

- 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.stonchard.com under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to our flooring products specifically or flooring problems in general.
- Requests for literature 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 build up 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.

CE MARKING

The harmonized European Standard EN 1504-2 „Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 2 : Surface protection systems for concrete” gives specifications for products and systems based on methods “hydrophobic impregnation”, “impregnation” and “coating” for the various principles presented under EN 1504-9.

Products which fall under this specification have to be CE-labelled as per Annex ZA. I, Tables ZA I a to ZA I g according to the scope and relevant clauses there indicated, and fulfill the requirements of the given mandate of the Construction Products Regulation nr. 305/2011.

For flooring systems not dedicated to protect or reinstate the integrity of a concrete structure, EN 13813 applies. Products acc. EN 1504-2 used as flooring systems with mechanical loads also must fulfil EN 13813. Here below indicated are the performance classes achieved according to the standard. For the specific performance results of the product to the particular tests, please see the actual values above in the PDS.


StonCor Europe Rue du Travail 9 1400 Nivelles, Belgium 2016
DOP-2016.04-003 EN 1504-2 Surface protection products
Physical Resistance/Surface Improvement Coating Adhesion to concrete:>2.0 N/mm ² Permeability to waterClass II : 5 m ≤Sd ≤ 50m Abrasion resistance:< 3000 mg* Compressive strength:Class II
* Tested in with one coat of protective coating

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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