

### PRODUCT DESCRIPTION

Stonlux SL is a self-smoothing epoxy floor coating for use on metal and concrete surfaces. It provides durable floor finish with good chemical resistance and high abrasion and impact resistance.

### FEATURES

- High gloss finish
- Good chemical resistance
- Has anti-bacterial and anti-fungal property
- Suitable for use in food inspected facilities
- Very good abrasion resistance
- Direct-to-concrete capability

### COLOR

Please refer to RAL Colour Chart for colour selection..

### DRY FILM THICKNESS

2 mm to 4 mm.

### SOLIDS CONTENT

100% by volume

### THEORETICAL COVERAGE RATE

18.00 m2 per 33.7 kg kit per 1mm thickness (A+B+C)

Allow for loss in mixing and application.

### PACKAGING

StonLux SL is packaged in 33.70Kg and 6.74Kg units for easy handling. Each unit consists of:

#### 33.70Kg Kit

2.85Kg of StonLux SL Part A

14.00Kg of StonLux SL Part B

16.85Kg of StonLux SL Part C

#### 6.74Kg Kit

0.57Kg of StonLux SL Part A

2.80Kg of StonLux SL Part B

3.37Kg of StonLux SL Part C

### STORAGE CONDITIONS

Store all components of StonLux SL indoors between 15 to 30°C in a dry area. The shelf life of the liquids is 1 year each in their original, unopened containers.

### SUBSTRATE PREPARATION

#### **Steel**

Steel substrates to be coated should be abrasive blasted to a near white metal finish (SSPC-10 or NACE-2) with a 2 to 3 mils anchor profile.

#### **Concrete**

Refer to SSPC-13/NACE-6 and ICRI 03732 on proper surface cleaning and profiling of concrete substrate. Refer to ASTM F 2170 and ASTM F 1869 to determine amount of moisture in concrete substrate. Contact Stonhard technical service in cases where moisture content is higher than 75% RH or 3 lbs./1000 sq.ft./24 hr period. Concrete should be properly cured and have the following characteristics:

- Substrate compressive strength of at least 25 MPa.
- A pH in the range of 7 to 11.
- The surface must show open pores throughout and have a sandpaper texture.

### PHYSICAL CHARACTERISTICS

Tensile Strength.....>12 N/mm<sup>2</sup>  
(ASTM D638)

Compressive Strength .....>56 N/mm<sup>2</sup>  
(ASTM C579-01)

Flexural Strength .....>17 N/mm<sup>2</sup>  
(ASTM C580-02)

Bond Strength.....>2.5 N/mm<sup>2</sup>  
(ASTM D4541)

Shore 'D' Hardness.....>75 N/mm<sup>2</sup>  
(ASTM D2240-05)

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. All sample preparation and testing are conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab-made test coupons.

## PRIMING

Use Stonlux Primer for concrete surfaces.

## MIXING

Mix Part B and Part A separately first for 30 seconds. Combine Part B and Part A and power mix for 2 minutes using a slow-speed mixer. Slowly add Part C and mix for 3-4 minutes. Do not whip air into mixture. DO NOT USE PARTIAL KITS. No sweat-in or induction time is required.

## THINNING

Thinning is not recommended.

## POT LIFE

Pot life of StonLux SL is 30 minutes at 75°F (24°C). Pot life ends when coating becomes too viscous to use.

Note: Pot life will be less at higher temperatures

## APPLYING

### *Neat Application*

A neat application is typically for thickness below 1 mm.

Apply Stonlux SL at the desired thickness using a notched squeegee. Back roll with a spiked roller, this will assist in air release from the coating. When excessive out-gassing occurs, it has been found for best results to apply two coats with light sanding between coats.

### *Blended Application*

Pre-mix Part B (resin) for 30 seconds using a Jiffy Mixer. Pour Part A (hardener) into Part B and thoroughly mix for 2 minutes. After mixing Part B and Part A, slowly add Part C and mix for 3 to 4 minutes.

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

## PRECAUTIONS

- Use MEK, Toluene, or Xylene for cleanup. In case of spillage, absorb and dispose of in accordance with local governments regulations. Use adequate ventilation.
- Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions.
- When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA / NIOSH approved respirator.

## 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.

### IMPORTANT:

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 Middle East to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Middle East 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 MIDDLE EAST, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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## NOTES

- All material on-site must be counted, and all lot numbers recorded. Contact Stonhard's Technical Service Department for additional details.
- 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.
- A staff of technical service engineers is available to assist with product application, or to answer questions related to Stonhard products.
- 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.

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