

### PRODUCT DESCRIPTION

Stonshield SLT is a nominal 2 to 3 mm thick flooring system with a decorative, slip resistant surface. Its slip resistant surface remains stain resistant and easy to clean, it is comprised of:

#### **Stonhard Primer**

Select appropriate primer for sealing and bonding to the substrates. (Contact your Stonhard sales representative or Tech Service Engineer.)

#### **Stonshield Undercoat**

A two-component, free flowing epoxy formulation consisting of resin and curing agent

#### **Stonshield Aggregate**

Brightly coloured, quartz broadcast aggregate

#### **Stonkote CE4**

A two-component, high performance, UV resistant, clear epoxy sealer

### OPTIONS

#### **Cove Base**

To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 5 to 15 cm are available.

#### **Standard or Medium Texture**

Stonkote CE4 is applied at a thickness that will produce the desired texture.

### PACKAGING

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

#### **Stonshield Undercoat – 2mm option**

1 carton containing:  
6 foil bags of Amine  
6 poly bags of Resin

#### **Stonshield Undercoat – 3mm option**

1.5 cartons, each containing:  
6 foil bags of Amine  
6 poly bags of Resin

#### **Stonshield Aggregate – 2mm option**

4.5 individual bags of colored quartz aggregate

#### **Stonshield Aggregate – 3mm option**

6 individual bags of colored quartz aggregate

#### **Stonkote CE4**

##### **Standard Texture**

0.75 carton containing:  
6 foil bags of Amine  
6 poly bags of Resin

##### **Medium Texture**

One carton containing:  
6 foil bags of Amine  
6 poly bags of Resin

**IMPORTANT:** Appropriate primer must be ordered separately depending on the substrate.

### COVERAGE

Each unit of Stonshield SLT will cover approximately 27.9 m<sup>2</sup> of surface at a 2 to 3 mm nominal thickness.

### STORAGE CONDITIONS

Store all components of Stonshield SLT between 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

Stonshield SLT is available in 2 solid colours and 10 tweed pattern standard colours. Refer to the Stonshield Colour Sheet. Custom colours are available upon request.

### PHYSICAL CHARACTERISTICS

Tensile Strength ..... 11 N/mm <sup>2</sup> (ASTM C-307)	
Flexural Strength ..... 28 N/mm <sup>2</sup> (ASTM C-580)	
Flexural Modulus of Elasticity ..... 6.9 X 10 <sup>3</sup> N/mm <sup>2</sup> (ASTM C-580)	
Hardness ..... 85 to 90 (ASTM D-2240, Shore D)	
Impact Resistance ..... >18 Nm. (ASTM D-2794)	
Abrasion Resistance ..... 0.06 gm max. weight loss (ASTM D-4060, CS-17)	
Cure Rate ..... 12 hours for foot traffic (@ 25°C) ..... 24 hours for normal operations	
Flammability ..... Class 1 (ASTM E-648)	
Thermal Coefficient of Linear Expansion ..... 2.52 x 10 <sup>-7</sup> mm/m°C (ASTM C-531)	
Water Absorption ..... 0.1% (ASTM C-413)	
VOC Content ..... Stonshield Undercoat - 34 g/l (ASTM D-2369) ..... Stonkote CE4 - 34 g/l	

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 is 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.

## **SUBSTRATE**

Stonshield SLT, with 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 representative or Technical Service.

## **APPLYING**


- DO NOT attempt to install material if the temperature of Stonshield SLT components and substrate are not within 16 to 30°C. The cure time and application properties of the material will be severely affected by temperature.
- The primer is mixed then applied to the floor. Stonshield Aggregate is broadcast into the wet primer using a special Stonhard Spraycaster. Allow to cure, then sweep off excess aggregate.
- Stonshield Undercoat is mixed then applied with a squeegee, then rolled with a medium nap roller. Stonshield Aggregate is broadcast into the freshly rolled undercoat. Allow at least 8 hours to cure.
- Scrape and sweep the floor to remove all loose aggregate particles, then vacuum.
- Stonkote CE4 is mixed then applied.
- Refer to the Stonshield SLT 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 Stonshield Chemical Resistance Guide. If a coating is utilized to seal the Stonshield SLT surface, please ensure that you consult the Product Data sheet for the coating for details regarding chemical resistance of the coating utilized.
- Safety Data Sheets for Stonshield SLT are available online at [www.stonhard.com](http://www.stonhard.com) under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- 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 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

## CE MARKING

The harmonized European Standard EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification, they have to be CE-labelled as per Annex ZA., Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011


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DOP-2013.05-001
EN 13813 SR-AR1.0-B2.0-IR18
Synthetic resin flooring system for use internally in buildings (system as per Product Data Sheet)
Release of corrosive substances: SR Wear resistance: AR 1.0 Adhesion strength by pull off test: > B2.0 Impact resistance: IR18 VOC Emissions <math>< 2 \mu\text{g}/\text{m}^3</math> Chemical resistance CRG*
* CRG: see Stonhard Chemical Resistance Guide

### 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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