

### PRODUCT DESCRIPTION

Stonshield SLT is a nominal 3/32 to 1/8 in./2 to 3 mm seamless flooring system comprised of:

#### Standard Primer

A two-component, penetrating, moisture tolerant, epoxy primer

#### Stonshield Undercoat

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

#### Stonshield Aggregate

Brightly colored, quartz broadcast aggregate

#### Stonshield Sealer

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

### USES, APPLICATIONS

Stonshield SLT is a seamless, free flowing flooring system engineered with a textured surface for slip resistance in commercial and industrial applications. This 3/32 to 1/8 in./2 to 3 mm flooring system provides a cost effective alternative to Stonshield HRI for light traffic applications. It is ideally suited for use in research facilities, correctional institutions, hospitals and healthcare facilities, educational facilities and a wide variety of light manufacturing areas.

### SUBSTRATE

Stonshield SLT is suitable for application over properly prepared concrete that does not require renovation. In most cases, this will be new or very smooth concrete. Not recommended over wood, brick, tile, asphalt, mastic, gypsum based products or painted surfaces. These must first be removed by mechanical means prior to priming and overlayment.

### OPTIONS

#### Cove Base

To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 2 to 6 in./5 to 15 cm are available.

#### Standard or Medium Texture

Stonshield Sealer 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 Part A (curing agent)
- 6 poly bags of Part B (resin)

### PHYSICAL CHARACTERISTICS

|   |   |
|---|---|
| <b>Compressive Strength</b> (ASTM C-579)                    | .....9,000 psi after 7 days   |
| <b>Tensile Strength</b> (ASTM C-307)                        | .....1,600 psi  |
| <b>Flexural Strength</b> (ASTM C-580)                       | .....4,000 psi  |
| <b>Flexural Modulus of Elasticity</b> (ASTM C-580)          | .....1.0 X 10 <sup>6</sup> psi  |
| <b>Hardness</b> (ASTM D-2240, Shore D)                      | ......85 to 90  |
| <b>Impact Resistance</b> (ASTM D-2794)                      | .....>160 in./lbs.  |
| <b>Abrasion Resistance</b> (ASTM D-4060, CS-17)             | ......0.06 gm max. weight loss  |
| <b>Coefficient of Friction (Dry)</b> (ASTM F-1679)          | .....Standard Texture > 1.0<br>Medium Texture - 0.96                              |
| <b>Slip Resistance Index (Wet)</b> (ASTM F-1679)            | .....Standard Texture > 1.0<br>Medium Texture - 0.93                              |
| <b>Flammability</b> (ASTM D-635)                            | .....Self-Extinguishing<br>Extent of burning 0.25 in. max                         |
| <b>Thermal Coefficient of Linear Expansion</b> (ASTM C-531) | .....1.8 x 10 <sup>-5</sup> in./in.°C   |
| <b>Water Absorption</b> (ASTM C-413)                        | ......0.1%  |
| <b>Heat Resistance Limitation</b>                           | .....140°F/60°C (for continuous exposure)<br>200°F/93°C (for intermittent spills) |
| <b>Cure Rate</b> (@ 77°F/25°C)                              | .....12 hours for foot traffic<br>24 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.

#### Stonshield Undercoat – 3mm option

1.5 cartons, each containing:

- 6 foil bags of Part A (curing agent)
- 6 poly bags of Part B (resin)

#### Stonshield Aggregate – 2mm option

9 individual bags of colored quartz aggregate

#### Stonshield Aggregate – 3mm option

12 individual bags of colored quartz aggregate

## Stonshield Sealer Standard Texture

0.75 carton containing:

- 6 foil bags of Part A (curing agent)
- 6 poly bags of Part B (resin)

## Medium Texture

One carton containing:

- 6 foil bags of Part A (curing agent)
- 6 poly bags of Part B (resin)

## COVERAGE

Each unit of Stonshield SLT will cover approximately 300 sq. ft./27.9 sq. m of surface at a 3/32 to 1/8 in./2 to 3 mm nominal thickness.

## STORAGE CONDITIONS

Store all components of Stonshield SLT 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.

## COLOR

Stonshield SLT is available in 2 solid colors and 10 tweed pattern standard colors. Refer to the Stonshield Color Sheet. Custom colors 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 (Stonklean TD9) 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.

## APPLYING

Application of the Stonshield SLT system is accomplished as follows:

1. Standard Primer is mixed then applied to the floor with a squeegee and nap roller. Stonshield Aggregate is broadcast into the wet primer using a special Stonhard Spraycaster. Allow 8 hours to cure, then sweep off excess aggregate.

**Note:** Quik Primer can be substituted for Standard Primer in order to expedite the installation. Allow 2 hours to cure, then sweep off excess aggregate.

2. Stonshield Undercoat is mixed then applied with a squeegee, then rolled with a medium nap roller. For a 2 mm system, the undercoat is applied with a stiff rubber squeegee. For a 3mm system, a steel squeegee is used.
3. Stonshield Aggregate is broadcast into the freshly rolled undercoat using a special Stonhard Spraycaster to ensure even distribution of the aggregate. Allow at least 8 hours to cure.
4. Scrape and sweep the floor to remove all loose aggregate particles, then vacuum.
5. Stonshield Sealer is mixed then applied. For a standard texture, the sealer is applied using a rubber squeegee and then rolled using a medium nap roller. For a medium texture, the sealer is applied using a rigid rubber squeegee and then rolled using a saturated, medium nap roller.

Refer to the Stonshield SLT Directions for further detail.

## RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of Stonshield SLT components and substrate are not within 60 to 85°F/16 to 30°C. **The cure time and application properties of the material will be severely affected by temperature.**
- DO NOT use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and other properties.**
- The use of safety glasses are required during application.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with impermeable gloves.
- Use only with adequate ventilation.

## NOTES

- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Material Safety Data Sheets for Stonshield SLT are available on line at [www.stonhard.com](http://www.stonhard.com) under Tech Info 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 technical service or literature 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.

06/10  
Rev. 01/11  
© 2011 Stonhard

### Worldwide Offices:

USA 800.257.7953  
Canada 800.263.3112

Mexico (52)55.9140.4500  
South America (54-3327)44.2222

Europe (32)2.720.8982  
Middle East (971)4.3470460

Africa (27)11.254.5500  
Asia (86)21.5466.5118



**STONHARD**  
[www.stonhard.com](http://www.stonhard.com)

An RPM Company