

PRODUCT DESCRIPTION

Stonshield SLT is a nominal 2 to 3 mm quartz aggregate broadcast 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 colored, 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 – 2 mm option

1 cartons each containing:
6 foil bags of Amine
6 poly bags of Resin

Stonshield Undercoat – 3 mm option

1,5 cartons, each containing:
6 foil bags of Amine
6 poly bags of Resin

Stonshield Aggregate – 2 mm option

4.5 individual bags of colored quartz aggregate

Stonshield Aggregate – 3 mm option

6 individual bags of colored quartz aggregate

StonkoteCE4

Standard texture

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

Medium texture

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

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

PHYSICAL CHARACTERISTICS

Compressive Strength (EN 13892-2) after 7 days	60 N/mm ²
Tensile Strength (ASTM C-307)	11 N/mm ²
Flexural Strength (EN/ISO 178)	28 N/mm ²
Flexural Modulus of Elasticity (ASTM C-580)	6.9 x 10 ³ N/mm ²
Adhesion strength by pull-off test (EN 13892-8)	> 2 N/mm ²
Hardness (DIN 53505, Durometer Shore D)	85 to 90
Impact Resistance (EN /ISO 6272)	> 18 Nm
Abrasion Resistance (ASTM D-4060, CS-17)	0.06 gm *
Wear resistance (EN 13892-4)	AR1.0
Thermal Coefficient of Linear Expansion (ASTM C-531)	1.8 x 10 ⁻² mm/m°C
Water Absorption (ASTM C-413)	0.1%
Heat Resistance Limitation (continuous exposure)	60°C
(intermittent spills)	93°C
VOC Content (ASTM D-2369)	Stonshield Undercoat - 34 g/l Stonkote CE4 - 34 g/l
(DIN/ISO/EN 16000-9)	TVOC ₇ 819 µg/m ³
(after 7 days)	SVOC ₇ < 2 µg/m ³
Curing	12 hours for Foot traffic 24 hours for normal operations (at 75°F/25°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. 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.

COVERAGE

Each unit of Stonshield SLT will cover approximately 27.9 m² of surface at a nominal 2 to 3 mm 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.

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

Stonshield SLT, 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.

APPLYING

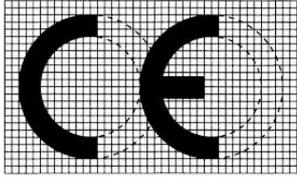
- DO NOT attempt to install material if the temperature of Stonshield SLT components and substrate are not within 16 to 30°C. The cure time and application properties of the material are severely affected by temperatures outside of this range.
- The primer is mixed then applied to the floor. Stonshield aggregate is broadcast into the wet primer using a special Stonhard sprayer: 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 fresh 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 cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available in the Stonshield Chemical Resistance Guide.
- Material Safety Data Sheets for Stonshield SLT are available online at 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.

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-labeled as **per Annex ZA., Table ZA.1.5 and 3.3** and fulfill the requirements of the given mandate of the Construction Products Regulation no. 305/2011

	
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EC-DOP-2013.05.001	
EN 13813 SR-C _w 60-F _w 28-AR1.0-B2.0-IR18	
Synthetic resin flooring system for use internally in buildings (system as per Product Data Sheet)	
Reaction to fire:	NPD*
Release of corrosive substances:	SR
Water permeability:	NPD*
Compressive strength:	C _w 60
Flexural strength:	F _w 28
Wear resistance:	AR1.0
Adhesion strength by pull-off test:	> B2.0
Impact resistance:	IR18
Sound insulation:	NPD*
Sound absorption:	NPD*
Thermal resistance:	NPD*
Chemical resistance:	CRG**
* NPD: No Performance Determined	
**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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