

PRODUCT DESCRIPTION

Stoncrete SL1 is a single component, self-leveling, cementitious material designed for easy application as an underlayment for Stonhard and Liquid Elements floor systems and all types of flooring materials. It is used for substrate repair and leveling with application thickness ranging from 6 mm to 12 mm.

USES/APPLICATIONS

- Leveling sound concrete surfaces
- Leveling wood subfloors
- Repair of old, worn concrete
- Used in conjunction with all Stonhard and Liquid Elements flooring systems

PRODUCT ADVANTAGES

- Fluid consistency for self-leveling applications
- Self-leveling for smooth, flat floors
- Minimal shrinkage and outstanding resistance to cracking
- High early strength for quick turnaround
- Excellent self-healing properties
- Extended open time
- Pumpable through standard colloidal mix pumps
- Fast curing formulation – Overlayment can be installed after 24 hour cure

PACKAGING/COVERAGE

Stoncrete SL1 is packaged in 22.67 kg bags that yield approximately 0.0147 m³ of material. Approximately 2.3 m² at a 6 mm thickness and a maximum thickness of 12mm.

STORAGE CONDITIONS

Stoncrete SL1 can be stored for two years in the original unopened package at temperatures between 15°C and 32°C in a dry area.

COLOR

Light gray in color when mixed.

SUBSTRATE

Stoncrete SL1, with the appropriate primer, is suitable for application over concrete, wood, brick, or quarry tile. For questions regarding other possible substrates, 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.

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-109)	15.2 N/mm ² @ 24 hrs 20.7 N/mm ² @ 7 days
Initial Set Time (ASTM C-191)	30 to 45 min
Final Set Time (ASTM C-191)	1 to 1.5 hrs
Unit Weight	Approx. 1890 kg/m ³

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.

PRIMING

The use of epoxy primer with a full broadcast of UT Medium Broadcast Aggregates is required for all applications of Stoncrete SL1. Epoxy primer should be fully cured and excess broadcast vacuumed before applying Stoncrete SL1.

MIXING

- A single bag of Stoncrete SL1 may be mixed with 5.5 to 6 liters of water in a pail with a “jiffy” mixer for a minimum of three minutes. Extended mix time may be necessary to achieve a uniform material.

Note: Do not exceed 6.1 liters of water per bag of Stoncrete SL1.

- Larger bulk mixers can be utilized. They must shear the material sufficiently to get the required flow and leveling utilizing the maximum of 6 liters of water.
- A colloidal mix pump can be used for large applications. Contact Technical Service for recommendations.
- To ensure that the material has the proper SL1 to water ratio perform a flow test using a Stoncrete SL1 Flow Ring (Product #88199).

APPLYING

- Do not attempt to install material if the temperature of Stoncrete SL1 components and substrate are not within 16 to 30°C.
- At the time of application, all surfaces must be primed. Stoncrete SL1 must be applied immediately after mixing.

- Pour a bead of material and rake out with a cam rake set to the appropriate thickness. The material may then be rolled with a spiked roller to even out the material and produce a smooth finish layer.
- Remember to maintain a wet edge so that each subsequent mix may be knit into the previous mix within a 15 minute period.
- When pumping, start in one corner placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Tools such as spiked rollers, notched squeegees, trowels and smoothers may be used to assist placement.

PRECAUTIONS

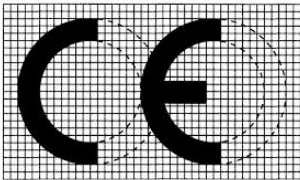
- Water is recommended for the clean up of unreacted Stoncrete SLI material. The reacted material will require mechanical means of removal. Use these materials only in strict
- accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- The use of NIOSH/MSHA approved respirators, safety glasses and impervious gloves is recommended.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Stoncrete SLI are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with application or to answer questions related to Stonhard products.
- Requests for technical literature or service 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-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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EC-DOP-2013.11.010	
EN 13813 CT-C20-B1.5	
Synthetic resin screed material for use internally in buildings (system as per Product Data Sheet)	
Release of corrosive substances:	CT
Compressive strength:	C20
Adhesion strength by pull-off test:	> B1.5
Chemical resistance:	CRG ¹
¹ 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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