

PRODUCT DESCRIPTION

Stonclad LT is a multi-layered textured, epoxy broadcast system and consists of an epoxy resin, amine curing agent and selected, graded broadcast aggregates, sealed with a general purpose epoxy coating. Stonclad LT is designed to achieve a nominal thickness of 1/8" (3 mm).

USES, APPLICATIONS

Stonclad LT is an epoxy based floor system, specifically designed for surfacing new build Industrial & Commercial floors subjected to light to medium duty wheeled traffic.

SYSTEM OPTIONS

Coatings

To improve clean ability and increase the resistance to damage from abrasion and chemical spillages, Stonkote GS4 is included in the system. Other coatings options are available for improved chemical resistance, please contact your local Stonhard representative or Stonhard's Technical Service department for specific requirements.

Waterproofing

Where the total system must be waterproof, use of Stonhard's Stonproof ME7 membrane system is required, with strict adherence to application instructions.

Cove Base

To provide for an integral seal at the joint between the floor and the wall, cove bases in varying heights are available, contact your local Stonhard representative or Technical Service Department for further details.

PACKAGING

Stonclad LT is packaged in units for easy handling. Each unit consists of:

Basecoat

- (2) 5-gallon pails of HB4 Resin
- 1 carton containing 2 bags of Amine
- 2 Cartons containing 12 bags Individual bags of Stonhard Texture 2 (filler aggregate)

Broadcast Aggregates:

8 Bags of Texture 3

Coating

- 2 cartons of Stonkote GS4 each containing:
 - 4 foil bags of part A (curing agent)
 - 4 poly bags of part B (resin)

COATING OPTIONS

Other coating options are available depending on the specific project requirements.

COVERAGE

Each unit of Stonclad LT will cover approximately 360 ft² of surface at a nominal 1/8" thickness.

STORAGE CONDITIONS

Store all components of Stonclad LT between 60 to 85°F/ 16 to 29°C in a dry area. Avoid excessive heat and do not freeze. The shelf life of the resin is one year in the original, unopened packaging.

COLOUR

Stonclad LT is available in 12 standard colours. Refer to the Stonclad Colour Sheet. Contact your local Stonhard representative or Technical Service with any questions.

PHYSICAL CHARACTERISTICS

Tensile Strength	930 psi
(ASTM C-307)	
Flexural Strength	3,450 psi
(ASTM C-580)	
Flexural Modulus of Elasticity	1.2X10 ⁶ psi
(ASTM C-580)	
Hardness	85 to 90
(ASTM D-2240, Shore D)	
Impact Resistance	50 in./lbs.
(ASTM D-2794)	
Abrasion Resistance	0.1 gm *
(ASTM D-4060, CS-17)	
Water Absorption	0.2%
(ASTM CS-413)	
VOC Content	80 g/l
(ASTM D-2369, Method E)	
Cure Rate	24 hours for normal operations
(@ 77°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.

SUBSTRATE

Stonclad LT, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonhard Stonset grouts. For questions regarding other possible 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.

PRIMING

Stonclad LT is self priming over well cured and structurally sound concrete, additional primers may be required should there be excess moisture or surface contaminants such as oils present, please consult Stonhard's Technical Services group for additional information if required.

MIXING

- Proper mixing is critical for the product for proper application, curing properties and ultimate physical properties.
- Mechanical mixing using a heavy-duty, slow-speed drill with a mixing blade is required.
- See Stonclad LT Directions for further details.

APPLICATION

- DO NOT attempt to install material if the temperature of Stonclad LT components and substrate are not within 16 to 30°C. The cure time and application properties of the material are severely affected at temperatures outside of this range.
- Material must be applied immediately after mixing.
- Stonkote HB4 resin and amine are together then add the Stonhard Texture #2 filler one bag at a time and mix for a minimum of 3 minutes. The applied with a 25-30mils notched squeegee, then back rolled with a spike roller to remove air bubbles. Texture 3 is then broadcast into the freshly rolled basecoat to refusal. Allow at least 8 hours to cure.
- Scrape and sweep the floor to remove all loose aggregates, then vacuum.
- Stonkote GS4 is mixed then applied to seal the surfaces, allow to cure before returning to normal operations.
- Detailed application instructions can be found in the Stonclad LT Directions.

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 Stonclad Chemical Resistance Guide.
- Safety Data Sheets for Stonclad LT 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.
- 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.

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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