

PRODUCT DESCRIPTION

Stonclad LT is a multi-layered epoxy broadcast system. The system consists of an epoxy resin, amine curing agent and selected, graded broadcast aggregates. Stonclad LT can be applied at thickness of 3 mm.

USES, APPLICATIONS

Stonclad LT is an epoxy based floor system. It was specifically designed for surfacing newbuild industrial floors that can handle light to medium wheeled traffic.

SYSTEM OPTIONS

Coatings

To improve clean ability and increase the resistance to damage from abrasion and chemical spillages, the following coatings are required. Stonkote GS4 or Stonkote HT4. Other coatings options are available, please contact your local Stonhard representative or Technical Service 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 for details.

PACKAGING

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

Primer/basecoat

- 1.5 Pails of Stonclad LT Primer/Basecoat Resin
- 1.5 Pails of Stonclad LT Primer/Basecoat Amine
- 1 bag of Stonclad LT Aggregate

Broadcast sands:

- 3 Bags of UT Medium Aggregate
- 5 Bags of Texture 3

COATING OPTIONS

Stonkote GS4/HT4 should be used as final topcoat.

Note: since GS4/HT4 is used over a textured surface, the coverage of the coating is approximately 18.5 m²

COVERAGE

Each unit of Stonclad LT will cover approximately 27m² of surface at a nominal 3 mm thickness.

STORAGE CONDITIONS

Store all components of Stonclad LT between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life of the resin is 1.5 years and the amine is 3 years in the original, unopened container.

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM C-307)	6.4 N/mm ²
Flexural Strength (ASTM C-580)	23.8 N/mm ²
Flexural Modulus of Elasticity (ASTM C-580)	8.3 KN/mm ²
Hardness (ASTM D-2240, Shore D)	85 to 90
Impact Resistance (ASTM D-2794)	<4,52 N/m
Abrasion Resistance (ASTM D-4060, CS-17)	0.1 gm *
Water Absorption (ASTM CS-413)	0.2 %
VOC Content (ASTM D-2369, Method E)	80 g/l
Cure Rate (at 25°C)	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. 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

COLOR

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

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

The use of Stonclad LT Primer is necessary for all applications of Stonclad LT over concrete substrates. For other substrates, contact Technical Service for recommendations.

MIXING

- Proper mixing is critical for the product to exhibit the proper application properties, cure 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.

APPLYING

- 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.
- The Stonclad LT Primer is mixed then applied to the floor. UT Medium Aggregate is broadcast into the wet primer using a special Stonhard Spraycaster. Allow to cure, then sweep off excess aggregate.
- Stonclad LT Basecoat is mixed then applied with a squeegee, then rolled with a medium nap roller. Texture 3 is broadcast into the freshly rolled basecoat. Allow at least 8 hours to cure.
- Scrape and sweep the floor to remove all loose aggregate particles, then vacuum.
- Stonkote GS4/HT4 is mixed then applied.
- 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.stoncor-europe.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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STONHARD
www.stoncor-europe.com



European Offices:

Belgium	+32 674 93 710	Spain/Portugal	+351 707 200 088	Germany	+49 240 541 740
France	+33 160 064 419	United Kindom	+44 125 63 36 600	The Netherlands	+31 165 585 200
Poland	+48 422 112 768	East Europe	+48 422 112 768	Italy	+39 022 53 751