

PRODUCT DESCRIPTION

Stonclad UL is a 4 component, liquid rich, leveling slurry, polyurethane mortar system. Stonclad UL consists of a urethane-urea binder, pigments and graded quartz aggregates. Stonclad UL can be applied at a thickness ranging from 3 mm to 6 mm depending on application requirements. Stonclad UL is a high performance mortar that has a smooth, matte finish and exhibits excellent wear resistance, impact resistance and chemical resistance. Stonclad UL is ideal for dry food processing areas and other quick turn industrial applications or anywhere a tough self leveling mortar system is required.

SYSTEM 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 may be specified.

Aesthetic Limitations

Stonclad UL is designed for quick return-to-service industrial applications where aesthetics are not a critical aspect of floor selection and as a base layer for many other systems. Stonclad UL uncoated will yellow quickly over time and there will be color shading and gloss variations at the time of installation. For applications requiring good aesthetics, the Stonclad UL must be coated to ensure a uniform appearance. Stonseal UT7 is the only coating recommended for use over the Stonclad UL mortar. The mortar must be sanded aggressively prior to the coating application. Consult the Stonclad UL Directions for more information.

Waterproofing

Where the total system must be waterproofed, the use of Stonhard's Stonproof ME7 membrane system with Texture #3 broadcast to refusal is required with a strict adherence to application instructions.

Crack Treatment

When crack treatment is needed due to cracks in the substrate, the use of Stonhard's Stonproof CT5 or RH7 with Texture #3 broadcast to refusal is required with a strict adherence to application instructions.

PACKAGING

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

Mortar

2 cartons, each containing:

4 foil bags of Isocyanate

4 poly bags of Polyol

8 individual bags of part C-I aggregate

Pigment

0.666 carton, containing:

12 bags of part C-2 pigment packs powder

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-579)	42 N/mm ² after 7 days
Tensile Strength (ASTM C-307)	7 N/mm ²
Flexural Strength (ASTM C-580)	14 N/mm ²
Hardness (ASTM D-2240, Shore D)	75 to 80
Impact Resistance (ASTM D-2794)	> 18 Nm
Flammability (ASTM E-648)	Class I
Water Absorption (ASTM C-413)	< 1%
VOC Content (ASTM D-2369, Method E)	UL mortar-6 g/l
Cure Rate (@ 25°C)	8 hours for foot traffic 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 coupons.

USGBC LEED RATING

Stonclad UL meets the requirements of LEED;

- MR Credit 1 – Building Reuse
- MR Credit 2 – Construction Waste Management
- MR Credit 4 – Recycled Content
- MR Credit 6 – Rapidly Renewable Materials
- IEQ Credit 4 – Low Emitting Materials
- VOC content of the total system <100 g/l

COVERAGE

Each unit of Stonclad UL will cover approximately 18.6 m² of surface at a nominal 3 mm thickness.

COLOR

Stonclad UL is available in 9 standard colors. Refer to the Stonclad color sheet. Additional colors are available with the option of a pigmented topcoat. Contact your local Stonhard representative or Technical Service with any questions

STORAGE CONDITIONS

Store all components of Stonclad UL between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life of the liquids is one year while the C-1 has a 6 month shelf life in the original, unopened container

SUBSTRATE

Stonclad UL, 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's 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.

PRIMING

Stonclad UL requires HT Primer or Standard/SL primer. Either primer must be allowed to cure and must be tack-free before application.

MIXING

- Proper mixing is critical for the product to exhibit the proper application properties, cure properties and ultimate physical properties.
- Mechanical mixing using a JB Blender (or equivalent 20 Liter pail mixer) or a larger mortar mixer (e.g., a Bough 3 Batch Mixer) is required. A heavy duty drill with a jiffler attachment must also be used.
- See Stonclad UL Directions for further details.

APPLYING

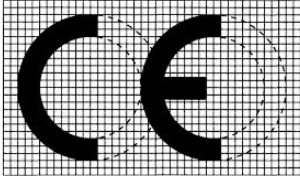
- Material must be applied immediately after mixing.
- A notched rake is used to properly spread the material over the floor at the proper thickness. The rake must be set to achieve the desired coverage/thickness.
- Spike rollers are used to smooth and level the material.
- Detailed application instructions can be found in the Stonclad UL Directions.

NOTES

- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available in the Stonclad Chemical Resistance Guide. If a coating is utilized to seal the Stonclad UL surface, please ensure that you consult the Product Data sheet for the coating for details regarding chemical resistance of the coating utilized.
- Safety Data Sheets for Stonclad UL are available online at www.stonhard-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 build up 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

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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I3	
DOP-2013.01.008	
EN 13813 SR-AR0.5-B2.0-IR18	
Synthetic resin flooring system for use internally in buildings (system as per Product Data Sheet)	
Release of corrosive substances:	SR
Wear resistance:	AR0.5
Adhesion strength by pull-off test:	> B2.0
Impact resistance:	IR18
Chemical resistance:	CRG*
*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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