

PRODUCT DESCRIPTION

Stonclad UL is a four component liquid rich, self-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 1/8 in./3 mm to 3/16 in./5 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 2 to 6 in./5 to 15 cm may be specified.

Note: Stonclad UL is designed for quick return-to-service industrial applications where aesthetics are not the primary characteristic of the floor selection. Stonclad UL uncoated will yellow over time and there will be color shading and gloss variations at the time of installation. Detailed instructions on coating Stonclad UL can be found in the Stonclad UL Directions.

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.

Texture Options

To add texture to the system, texture can be broadcast into the wet Stonclad UL material. Consult the Stonclad UL Directions for more information.

PACKAGING

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

Mortar

- 4 cartons, each containing:
 - 2 foil bags of Isocyanate
 - (2) 1 gallon cans of Polyol

8 individual bags of Part C-1 aggregate

Pigment

- 0.666 cartons containing
 - 12 bags of Part C-2 pigment packs powder

COVERAGE

Each unit of Stonclad UL will cover approximately 200 sq ft/18.58 sq. m at a nominal thickness of 1/8 in./3 mm.

STORAGE CONDITIONS

Store all components of Stonclad UL between 60 to 85°F/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.

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.

PHYSICAL CHARACTERISTICS

Compressive Strength.....	6,000 psi
(ASTM C-579)	after 7 days
Tensile Strength	1,000 psi
(ASTM C-307)	
Flexural Strength	2,000 psi
(ASTM C-580)	
Hardness	75 to 80
(ASTM D-2240, Shore D)	
Impact Resistance.....	>160 in./lbs.
(ASTM D-2794)	
Flammability	Class 1
(ASTM E-648)	
Water Absorption	< 1%
(ASTM C-413)	
VOC Content.....	UL Mortar - 6 g/l
(ASTM D-2369, Method E)	
Cure Rate	8 hours for foot traffic
(@ 77°F/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 coupons.

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 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 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 5-gallon pail mixer) or larger mortar mixer (e.g., Baugh 3 Batch Mixer) is required. A heavy-duty drill with a Jiffiler attachment must also be used.
- See Stonclad UL Directions for further details.

APPLYING

- Material must be used 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.
- Spiked rollers are used to smooth and level the material.
- Detailed instructions on application and installation can be found in the Stonclad UL Directions.

PRECAUTIONS

- Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles or safety glasses and impermeable gloves are required.
- If eye contact occurs, flush area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- If material is ingested, immediately contact a physician. DO NOT INDUCE VOMITING.
- Use only with adequate ventilation.
- During prep-work of floor substrate or mixing of Stonhard product while adding aggregate, N-95 dust masks must be worn.

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.
- Safety Data Sheets for Stonclad UL 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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USA HQ	(800) 257 7953	Mexico	+(52) 55 9140 4500	Belgium	+(32) 67 49 37 10	South Africa	+(27) 11 254 5500	Australia	+(61) 3 9587 7433
Canada	(800) 263 3112	Argentina	+(54) 11 5032 3113	Dubai, UAE	+(971) 4 3470460	India	+(91) 22 28500321		