

### PRODUCT DESCRIPTION

Stonclad UT is a dense, liquid-rich, self-priming, textured, four-component, notch-trowel-applied, cementitious, polyurethane mortar system that is designed with sustainability in mind. Stonclad UT is a high-impact resistant mortar which exhibits excellent abrasion, thermal shock, thermal cycling, and chemical-resistant characteristics, making it ideal for the food and beverage industry, as well as any other applications requiring these properties.

### SUSTAINABILITY

- Stonclad UT utilizes plant-based, rapidly renewable raw materials in its formulation. Plant-based raw materials are non-toxic and have the ability to biodegrade.
- The Stonclad UT mortar liquids and topcoat are packaged in recyclable cartons. The individual components are pre-weighed in flexible packaging. Flexible packaging consumes far fewer raw materials during manufacture decreasing the carbon footprint compared to rigid packaging. They also occupy a much smaller volume in landfills than rigid packaging.
- Stonclad UT has low VOC content, does not contain any hazardous air pollutants, and incorporates an anti-dusting agent in the aggregate to prevent dust accumulation during mixing and helps improve indoor air quality during installation.
- Stonclad UT surpasses the California Department of Public Health (CDPH) v1.2 emission standards (certificate is available upon request).
- Health Product Declarations (HPD's) have been prepared for Stonclad UT and are available upon request.
- Stonclad UT has been registered with the Mindful Materials sustainable product database, details can be found at [www.mindfulmaterials.com](http://www.mindfulmaterials.com).

### 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.

#### Textures

To find the necessary balance between cleanability, slip resistance and durability, Stonclad UT is offered in 5 levels of texture.

#### 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.

#### Anti-Microbial

Stonplus PROTECT- Stonplus PROTECT is an antimicrobial, organic thione compound that, when used as an additive with Stonhard floor systems, acts as a longlasting bacteriostat and fungistat to protect the floor against a broad range of gram-positive and gram-negative bacteria and fungi.

#### Topcoat

Stonseal UT7- Stonseal UT7 is a two-component, solvent-free, abrasion-resistant, pigmented urethane sealer. It is formulated to increase abrasion and chemical resistance while improving cleanability.

### PHYSICAL CHARACTERISTICS

Compressive Strength .....	7,700 psi
(ASTM C-579).....	after 7 days
Tensile Strength.....	1,000 psi
(ASTM C-307)	
Flexural Strength.....	2,400 psi
(ASTM C-580)	
Flexural Modulus of Elasticity.....	2.6 x 10 <sup>6</sup> psi
(ASTM C-580)	
Hardness.....	.80 to 84
(ASTM D-2240, Shore D)	
Impact Resistance .....	>160 in./lbs.
(ASTM D-2794)	
Abrasion Resistance .....	0.03 gm *
(ASTM D-4060, CS-17)	
Flammability.....	Class 1
(ASTM E-648)	
Thermal Coefficient	
of Linear Expansion .....	1.1 x 10 <sup>-5</sup> in./in.°F
(ASTM C-531)	
Water Absorption .....	< 1%
(ASTM C-413)	
VOC Content.....	UT Mortar - 7 g/l
(ASTM D-2369, Method E).....	UT7 Topcoat - 12 g/l
Cure Rate .....	6 hours for foot traffic
(@ 77°F/25°C).....	24 hours for normal operations

\* Test samples finished with one coat of high solids urethane coating

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.

## PACKAGING

Stonclad UT 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-1 aggregate

### **Pigment**

0.67 cartons containing:

- 12 bags of Part C-2 pigment packs powder

### **Broadcast Options**

3 individual bags of Texture 3 broadcast aggregate for light textured systems

4 individual bags of Texture 8 broadcast aggregate for medium textured systems

6 individual bags of Stonshield broadcast aggregate for heavy textured systems

**3 individual bags of Granite broadcast aggregate for granite textured systems**

### **Stonseal UT7**

1 carton containing:

- 4 foil bags of Hardener
- 4 poly bags of Resin

## COVERAGE

Each unit of Stonclad UT will cover approximately

Standard Thickness

- 190 sq. ft./ 17.6 sq. m of surface at a nominal 1/4 in./6 mm thickness.

Alternative Thickness Options

- 90 sq. ft./ 8.36 sq. m of surface at nominal 1/2 in./12.7mm thickness
- 110 sq. ft/ 10.2 sq. m of surface at a nominal 3/8 in./9.5 mm thickness.
- 200 sq. ft/ 18.6 sq. m of surface at a nominal 3/16 in./4.8 mm thickness – **\*Please consult Technical Service if considering applying at this thickness\***

## STORAGE CONDITIONS

Store all components of Stonclad UT 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 UT 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 UT, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonset TG6. For questions regarding other possible substrates, contact your local Stonhard representative or Technical Service.

Note: Stonclad UT is suitable for application over new/green concrete. The concrete must be in place for a minimum of 5 days, be dry and have sufficient strength to handle mechanical preparation.

## 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 UT is a self-priming mortar. No additional primer is necessary.

## 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 gal. pail mixer) or a larger mortar mixer (e.g., a Baugh 3 Batch Mixer) is required.
- See Stonclad UT Directions for further details.

## APPLYING

Material must be used immediately after mixing.

- A Screed Applicator is used to distribute the mixed Stonclad UT onto the floor.
- Notched finishing trowels and spiked rollers are used to smooth the surface of the material to the required thickness.
- Texture aggregate is then broadcast into the wet mortar.
- After mortar cures, remove excess broadcast aggregate.
- Allow the mortar to cure 6 to 8 hours, then apply the Topcoat.

Note: No Topcoat used when Stonshield broadcast aggregate, Texture 7 broadcast aggregate, or Granite broadcast aggregate is used in the UT system. Loose aggregate is removed and left uncoated.

- Detailed instructions on application and installation can be found in the Stonclad UT Directions.

## PRECAUTIONS

- If installing at 3/16 in./4.8 mm with UL material, the temperature of the floor must be at least 60°F/16°C.
- 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.
- In case of contact, 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.**

## NOTES

- Use only with adequate ventilation.
- 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 UT surface, please ensure that you consult the Product Data Sheet for the coating on details regarding chemical resistance of the coating utilized.
- Stonclad UT Part C-1 contains Portland Cement and silica fines. A NIOSH-approved dust/mist respirator is required during mixing. Use only with adequate ventilation.
- Safety Data Sheets for Stonclad UT are available online at [www.stonhard.com](http://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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