

PRODUCT DESCRIPTION

Stonclad UT is a dense, liquid-rich, self-priming, textured, four-component, notch trowel applied, polyurethane mortar system. Stonclad UT consists of a urethane-urea binder, pigments and graded quartz aggregates. Stonclad UT is a nominal 1/4 in./6 mm system. 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.

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 and slip resistance, Stonclad UT is offered in three incremental levels of texture. The texture is specified as light, medium or heavy. For aesthetic and cleanability purposes, light and medium textures are coated with a urethane based sealer.

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

- 1.3 cartons containing:
 - 6 bags of Part C-2 pigment packs powder

Broadcast

- 2 individual bags of broadcast aggregate for light textured systems
- 2 individual bags of broadcast aggregate for medium textured systems
- 6 individual bags of colored quartz broadcast aggregate for heavy textured systems

Stonseal UT7

- 1 carton containing:
 - 4 foil bags of Isocyanate
 - 4 poly bags of Polyol

COVERAGE

Each unit of Stonclad UT will cover approximately 190 sq. ft/17.6 sq. m at a nominal thickness of 1/4 in./6 mm.

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	2.6×10^6 psi
(ASTM C-580)	
Hardness80 to 84
(ASTM D-2240, Shore D)	
Impact Resistance	>160 in./lbs.
(ASTM D-2794)	
Abrasion Resistance005 gm *
(ASTM D-4060, CS-17)	
Flammability	Class I
(ASTM E-648)	
Thermal Coefficient of Linear Expansion	1.1×10^{-5} in./in.°F
(ASTM C-531)	
Water Absorption	< 1%
(ASTM C-413)	
VOC Content	UT Mortar - 7 g/l
(ASTM D-2369, Method E)	Stonseal UT7 - 30 g/l
Cure Rate6 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.

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 is 3 years in the original, unopened container.

COLOR

Stonclad UT is available in 12 standard colors. Refer to the Stonclad Color Sheet. Color variations will exist if the Stonclad UT surface is not coated with a pigmented coating. Please 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 Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, 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.
- When applying a light or medium texture system, allow the mortar to cure 6 to 8 hours, then apply the sealer coat.
- Detailed instructions on application and installation can be found in the Stonclad UT Directions.

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 for details regarding chemical resistance of the coating utilized.
- Safety Data Sheets for Stonclad UT are available on line 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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STONHARD[®]
www.stonhard.com



Worldwide Offices:

USA 800.257.7953
Canada (905)430.3333

Mexico (52)55.9140.4500
South America (54-3327)44.2222

Europe (32)2.720.8982
Middle East (971)4.3470460

Africa (27)11.254.5500
Asia (86)21.5466.5118