

STONSHIELD UTS

PRODUCT DESCRIPTION

Stonshield UTS is a self-priming, textured, four-component, polyurethane mortar and broadcast system consisting of a urethane-urea binder, pigments, powders and quartz aggregates. Stonshield UTS is a nominal 1/4 in./6 mm system that cures to an extremely hard, high-impact-resistant surface which is decorative and exhibits excellent abrasion, wear, temperature and chemical resistance. It is comprised of:

Stonclad UT Mortar

- A four-component, multi-functional urethane-urea slurry.
- · Stonshield Aggregate
- · Brightly colored, quartz broadcast aggregate

Stonseal CA7

 A two-component, UV-resistant, aliphatic polyaspartic urethane sealer

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 are available.

Waterproofing

Where the total system must be waterproof, 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

Stonshield UTS 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 aggregate

Pigment

0.67 carton containing:

12 bags of pigment

Broadcast

10 individual bags of Stonshield broadcast aggregate

Stonseal CA7

2 cartons, each containing:

2 foil bags of Isocyanate

(2) 1-gallon cans of Amine

COVERAGE

Each unit of Stonshield UTS will cover approximately 190 sq. ft./18.58 sq. m at a nominal thickness of 1/4 in./6 mm.

STORAGE CONDITIONS

Store all components of Stonshield UTS between 60 to 85°F/16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is one year for the isocyanate and polyol and 6 months for Part C-1 in their original, unopened containers.

PHYSICAL CHARACTERISTICS

Compressive Strength
(ASTM C-307) Flexural Strength2,400 psi (ASTM C-580)
Flexural Modulus of Elasticity
Hardness
Impact Resistance
Abrasion Resistance
of Linear Expansion
VOC Content

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.

COLOR

Stonshield UTS is available in 2 solid colors and 12 tweed patterns as standard colors. Refer to the Stonshield Color Sheet. Custom colors are available upon request.

SUBSTRATE

Stonshield UTS is suitable for application over concrete and Stonset TG6 grout. Consult Stonhard's Technical Service Department for application over other substrates.

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

No priming is necessary over concrete or Stonset TG6.

POT LIFE

After mixing, Stonclad UT Mortar and Stonseal CA7 have a working time of approximately 20 minutes at 70°F/21°C. The working time will vary depending upon temperature and humidity.

APPLYING

- DO NOT attempt to install the material if the temperature of Stonshield UTS components is not within 60 to 85°F/16 to 30°C. The cure time and application properties of the mate- rial are severely affected.
- Stonclad UT Mortar base material is mixed just prior to use in accordance with prescribed directions. Material must be used immediately after mixing.
- A Screed Applicator is used to distribute the mixed Stonclad UT Mortar onto the floor.
- Notched finishing trowels and spiked rollers are used to smooth the surface of the material to the required thickness.
- Stonshield aggregate is broadcast into the wet mortar.
- Excess aggregate is removed, and a second broadcast is applied into wet sealer.
- Allow to cure 3 to 4 hours and apply sealer coat.

Note: Detailed instructions on application and installation can be found in Stonhard's Stonshield UTS Directions.

HIGH HUMIDITY APPLICATIONS

- It is common to have installation difficulties when applying Ston- seal CA7 under high humidity conditions. The working time of the Stonseal CA7 is inversely related to the relative humidity level. Under these conditions, the working time of the material is
- greatly reduced as the excessive moisture present in the atmosphere accelerates the cure.
- To slow down the cure rate, limit the amount of moisture coming in contact with the material.
- It is common practice, once materials are mixed, to pour the entire bucket onto the floor when working with epoxy and urethane. Though this is advantageous when working with epoxies and urethanes, it is detrimental when working with these polyaspartic urethanes. Increase the open time by pouring only a portion of the material onto the floor while leaving the rest in the bucket until it is ready to be applied. This limits the amount of material being exposed to the moisture in the air at one time.
- The cure rate of these urethane materials is not accelerated when sitting in the bucket, unlike epoxy materials. Also, NEVER mix multiple mixes at once; only mix one mix at a time!
- Low humidity will affect this product in the opposite way. When the humidity is low it is not unusual for the undercoat to take more than 4 hours to cure. It may even stay slightly soft for up to 12 hours. This will not affect the overall performance of the finished system. As the material cures the physical properties will develop to their full potential.

CAUTION

Avoid contact with the liquids as they may cause skin and/or eye irritation. In the case of eye contact, immediately flush the area with copious amounts of clean water for at least 15 minutes and seek medical attention. Workmen should cover hands with impervious gloves & wear safety glasses. Wash hands thoroughly with soap and water after use and before eating, smoking, etc. A N95 NIOSH approved dust mask must be worn during substrate preparation. Use only with adequate ventilation.

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 Stonshield Chemical Resistance Guide. If a coating is
 utilized to seal the Stonshield UTS 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 Stonshield UTS 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.

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