

PRODUCT DESCRIPTION

Stontec UTF is a nominal 2 mm flake broadcast flooring system that combines a decorative appearance with excellent chemical, stain and wear resistance. This polyaspartic urethane system creates a stain resistant surface that can be installed quickly and with little odor. It is comprised of:

Stonhard Primer

Appropriate Primer for sealing and bonding to the substrate.

Stonshield Aggregate

Brightly colored, quartz broadcast aggregate

Stontec UTF Undercoat

A three-component, undercoat consisting of a polyaspartic urethane resin, aliphatic isocyanate and filler

Stontec Flakes

Brightly colored flakes

Stonseal CA7

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

OPTIONS

Cove Base

To provide for an integral seal at the floor-wall interface, cove base in heights from 2 to 6 in./5 to 15 cm is available.

Thickness

For areas requiring increased thickness, a 1/8 to 3/16 in./3 to 5 mm of mortar may be added.

PACKAGING

Stontec UTF is packaged in units for easy handling. Each unit consists of:

Stonshield Aggregate

2 individual bags of colored quartz aggregate

Stontec UTF Undercoat

- 1 carton containing:
 - 2 foil bags of Isocyanate
 - (2) 1 gallon cans of Amine

2 individual bags of Undercoat filler

Stontec Flakes

0.67 individual boxes of small (1/16 in.) colored flakes
or
0.50 individual boxes of large (1/4 in.) colored flakes

Stonseal CA7

- 1 carton containing:
 - 2 foil bags of Isocyanate
 - (2) 1 gallon cans of a Amine

PHYSICAL CHARACTERISTICS

Tensile Strength	2,200 psi
(ASTM D-638)	
Flexural Strength	2,000 psi
(ASTM D-790)	
Flexural Modulus of Elasticity	2.6 × 10 ⁶ psi
(ASTM D-790)	
Hardness	60
(ASTM D-2240, Shore D)	
Indentation	no indentation
(MIL-D-3134F)	
Linear Coefficient of	23 × 10 ⁻⁶ in./in. °F
Thermal Expansion	
(ASTM C-531)	
Working Time @ 75°F/24°C	15 to 20 minutes
(ASTM C-308)	
Cure Rate	4 hours for foot traffic
(@77°F/25°C)	24 hours for normal operation
Impact Resistance	Exceeds 160 in.-lbs.
(ASTM D-4226)	
Abrasion Resistance	0.03 gm max. weight loss
(ASTM D-4060, CS-17)	
Flammability	Class I
(ASTM E-648)	
VOC Content	UTF Undercoat - 22 g/l
(ASTM D-2369, Method E)	Stonseal CA7 - 100 g/l

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.

IMPORTANT: Appropriate Primer must be ordered separately depending on the substrate.

COVERAGE

Each unit of Stontec UTF will cover approximately 200 sq. ft./18.6 sq. m of surface at a nominal 2 mm thickness.

STORAGE CONDITIONS

Store all components of Stontec UTF 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 in the original, unopened container.

COLOR

Stontec UTF is available in twelve standard colors in small (1/16 in.) or large (1/4 in.) sized flakes. Refer to the Stontec Color Sheet. Custom colors are available upon request.

Note: Micro (1/32 in.) flakes are available upon special request.

SUBSTRATE

Stontec UTF, with the appropriate primer, is suitable for application over properly prepared 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

The use of the appropriate primer is necessary for all applications of Stontec UTF. The primer must be tack-free prior to the application of the Undercoat.

MIXING

- Proper mixing is critical for the products to exhibit the proper application properties, cure properties and ultimate physical properties.
- Mechanical mixing is required for all components.
- See Stontec UTF Directions for further details.

APPLYING

- DO NOT attempt to install material if the temperatures of Stontec UTF components are not within 40 to 85°F/5 to 30°C. **The cure time and application properties of the material are affected by temperature and severely affected by humidity levels.**
- The primer is mixed, applied to the floor and broadcasted to refusal with Stonshield aggregate. The primer is allowed to cure and excess aggregate is removed.
- The undercoat is mixed, applied to the floor and broadcasted to refusal with Stontec Flakes. The undercoat is allowed to cure and excess flake is removed.
- Stonseal CA7 is mixed, applied to the floor and allowed to cure. The floor is lightly sanded and vacuumed.
- A second Stonseal CA7 is applied to the floor and allowed to cure.

Refer to the Stontec UTF Directions for further detail.

NOTES

- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available in the Stontec Chemical Resistance Guide.
- Safety Data Sheets for Stontec UTF are available online at www.stonhard.com under Products or upon request.
- A NIOSH approved air purifying respirator (APR) equipped with organic vapor/acid gas cartridges is required during application of the Stonseal CA7.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard flooring products.
- Requests for technical service or 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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www.stonhard.com



Worldwide Offices:

USA	800.257.7953	Mexico	(52)55.9140.4500	Europe	(32)2.720.8982	Africa	(27)11.254.5500
Canada	(905)430.3333	South America	(54-3327)44.2222	Middle East	(971)4.3470460	Asia	(86)21.5466.5118