STONHARD

STONTEC®UTF

PRODUCT DATA

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 joint between the floor and the wall, cove bases in heights from 5 to 15 cm are available.

Thickness

For areas requiring increased thickness, a 3 to 5 mm of epoxy mortar may be added.

PACKAGING

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

Stonshield Aggregate

2 bags of colored quartz aggregate

Stontec UTF undercoat

1 carton containing:

- 2 foil bags of Isocyanate
- (2) 1 Gallon Amine

2 individual bags of Undercoat filler

Stontec flakes

0.67 individual boxes of small (1.5 mm) colored flakes

or

0.50 individual boxes of large (6 mm) colored flakes

Stonseal CA7

1 carton containing:

- 2 foil bags of Isocyanate
- (2) 1 Gallon cans of Amine

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	15 N/mm^2
Flexural Strength (ASTM D-790)	13 N/mm^2
Flexural Modulus of Elasticity (ASTM D-790)	1.7 x 10^4 N/mm^2
Hardness (ASTM D-2240, Shore D)	60
Indentation (MIL-D-3134F)	no indentation
Thermal Coefficient of Linear Expansion (ASTM C-531)	23x10^6 mm./m˚C
Working Time @ 24˚C (ASTM C-308)	15 to 20 minutes
Cure Rate (@25˚C)	4 hours for Foot traffic 24 hours for normal operations
Impact Resitance (ASTM D-4226)	> 18 Nm
Abrasion Resistance (ASTM D-4060, CS-17)	0.03 gm max. weight loss
Flammability (ASTM E-648)	Class 1
VOC Content (ASTM D-2369, Method E)	UTF Undercoat - 22 g/l 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: Appropiate Primer must be ordered seperately depending on the substrate.

COVERAGE

Each unit of Stontec UTF will cover approximately 18.6 m^2 of surface at a 2 mm nominal thickness.

STORAGE CONDITIONS

Store all components of Stontec UTF between 16 to 30˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 1 years in the original, unopened container.

COLOR

Stontec UTF is available in 12 standard colors in small (1.5 mm) or large (6 mm) sized flakes. Refer to the Stontec color sheet. Custom colors are available upon request.

Note: Micro (0.8 mm) flakes are available upon special request.

SUBSTRATE

Stontec UTF, with the appropriate primer, is suitable for application over properly prepared concrete that does not require renovation. In most cases, this will be new or very smooth concrete. For questions regarding other 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's 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 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 temperature of Stontec UTF components and substrate are not within 16 to 30˚C. **The cure time and application properties of the material are severely affected by temperatures 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.

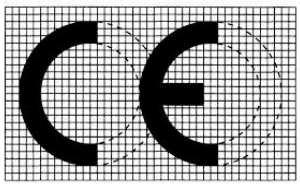
Refer to the Stonstec UTF Directions for further detail.

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-europe.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.

CE MARKING

The harmonized European Standard EN 13813 „Screed material and floor screeds- Screed materials - Properties and requirements“ specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification they have to be CE-labeled as **per Annex ZA., Table ZA.1.5 and 3.2** and fulfill the requirements of the given mandate of the Construction Products Regulation no. 305/2011



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EN 13813 SR-AR0.5-B2.0-IR18

Synthetic resin flooring system for use internally in buildings
(system as per Product Data Sheet)

Reaction to fire:	C_{fl}-S^1
Release of corrosive substances:	SR
Wear resistance:	AR0.5
Adhesion strength by pull-off test:	> B2.0
Impact resistance:	IR18
Chemical resistance:	CRG*

*CRG: see Stonhard Chemical Resistance Guide
**Test results in combination with a 3 mm acoustic underlayment

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