PRODUCT DESCRIPTION
Stonshield URT is a nominal 3/32 to 1/8 in./2 to 3 mm quartz aggregate broadcast flooring system that combines a decorative appearance with excellent chemical, stain, wear resistance and light stability. This high-solids, aliphatic urethane system creates a dense, stain resistant surface that can be installed with quick turn-around times and low odor. It is comprised of:

Stonhard Primer
Appropriate primer for sealing and bonding to the substrate

Stonshield URT Undercoat
A two-component, free flowing, polyaspartic urethane

Stonshield Aggregate
Brightly colored, quartz broadcast aggregate

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 bases in heights from 2 to 6 in./5 to 15 cm are available.

PACKAGING
Stonshield URT is packaged in units for easy handling.
Each unit consists of:

Stonshield URT Undercoat
1 carton of Stonseal CA7 containing:
4 foil bags of Isocyanate
4 bags of Amine

Stonshield Aggregate
6 individual bags of colored quartz aggregate

Stonseal CA7
1 carton containing:
4 foil bags of Isocyanate
4 foil bags of Amine

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	undercoat / 6,000 psi sealer/6,000psi
Hardness (ASTM D-2240, Shore D)	60
Impact Resistance (ASTM D-2794)	>160 in./lbs.
Abrasion Resistance (ASTM D-4060, CS-17)	0.10 gm max. weight loss
Thermal Coefficient of Linear Expansion	1.2 x 10^{-5} in./in.˚F
Cure Rate (@ 77˚F/25˚C)	3 to 4 hours for foot traffic 12 hours for normal operations
Fire Testing (ASTM E-648)	Class 1
VOC Content (ASTM D-2369)	Stonseal CA7 - 100 g/l Standard Primer 15 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.

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

STORAGE CONDITIONS
Store all components of Stonshield URT 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
Stonshield URT is available in 2 solid and 10 tweed colors. Refer to the Stonshield Color Sheet. Custom colors are available upon request.

SUBSTRATE
Stonshield URT, in conjunction with its appropriate primer, is suitable for application over properly prepared concrete.

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 Standard Primer is necessary for most applications of Stonshield URT. The Standard Primer must be broadcasted with aggregate and allowed to cure tack-free prior to the application of the undercoat.

APPLYING

- DO NOT attempt to install material if the temperature of Stonshield URT components and substrate are not within 40 to 85˚F/5 to 30˚C. The cure time and application properties of the material are severely affected. Application of the Stonshield URT system is accomplished as follows:
- Standard Primer is mixed and applied to the floor with a squeegee and nap roller. Stonshield Aggregate is broadcast into the wet primer. Allow 6 to 8 hours to cure and sweep off excess aggregate.
- Stonseal CA7 Undercoat is mixed and applied with a squeegee, then rolled with a medium nap roller. Stonshield Aggregate is broadcast into the freshly rolled Undercoat. Allow to cure until the floor is tack-free (3 to 4 hours at 72˚F/22˚C).
- Scrape and sweep the floor to remove all loose aggregate particles, then vacuum.
- Stonseal CA7 is mixed and applied.
- Refer to the Stonshield URT Directions for further details.

HIGH HUMIDITY APPLICATIONS

It is common to have installation difficulties when applying Stonseal 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. Though this is advantageous when working with epoxies, it is potentially detrimental when working with these unique 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 URT 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 URT 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.

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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