

PRODUCT DESCRIPTION

Stontop UST is a nominal 2 mm quartz aggregate broadcast that incorporates decorative stains into the process to achieve a unique, mottled, lightly textured appearance. Stontop UST combines this decorative appearance with excellent chemical, stain, wear resistance and UV resistance. This 100% 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:

Quik Primer

A two-component, penetrating, moisture tolerant, urethane primer

Stonseal PA7

A two-component, free flowing, solvent free, aspartic polyurethane formulation.

Stontop Aggregate

Stainable quartz broadcast aggregate

Stontop Stain

A single component, translucent waterborn stain

Stonseal CA7

A two-component, high performance, UV resistant, clear, solvent free, aliphatic, polyaspartic urethane sealer

USES, APPLICATIONS

Stontop UST is a seamless, decorative, color stable flooring system engineered with a textured surface for slip resistance in commercial and industrial applications. It is ideally suited for use in retail stores, lobbies, food courts, restaurants, studios, galleries, courtyards, walkways, athletic venues, museums, zoos and a wide variety of public spaces.

SUBSTRATE

Stontop UST is suitable for application over properly prepared concrete that does not require renovation. In most cases, this will be new or very smooth concrete. Not recommended over wood, brick, tile, asphalt, mastic, gypsum based products or painted surfaces. These must first be removed by mechanical means prior to priming and overlayment.

PACKAGING

Stontop UST is packaged in units for easy handling. Each unit consists of:

Quik Primer

0.66 carton containing:

- (1) 1 gallon can of Isocyanate
- (1) 1 gallon can of Polyol Resin

Stonseal PA7

1.5 cartons containing:

- (2) foil bags of Amine
- (2) 1 gallon cans of Resin

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	33 N/mm ²
Flexural Strength (ASTM D-790)	14 N/mm ²
Flexural Modulus of Elasticity (ASTM D-790)	17.9 X 10 ³ N/mm ²
Hardness (ASTM D-2240, Shore D)	60 to 65
Impact Resistance (ASTM D-4226)	>18 N/m
Abrasion Resistance (ASTM D-4060, CS-17)	0.03 gm max. weight loss
Coefficient of Friction(Dry) (ASTM F-1679)	>1.0
Slip Resistance Index (Wet) (ASTM F-1679)	>0.71
Flammability (ASTM E-648)	Class I
Linear Coefficient of Thermal Expansion (ASTM C-531)	2.16 x 10 ⁻⁷ mm/m°C
Cure Rate (@25°C)	4 hours for normal operations

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.

Texture #3

1.5 individual bags of Quartz Aggregate

Stontop Aggregate

4 individual bags of stainable Quartz Aggregate

Stontop Stain

1 gallon bottle

Stonseal CA7

1 carton containing:

- (2) foil bags of Aliphatic Isocyanate
- (2) 1 gallon cans of Polyaspartic Resin

COVERAGE

Each unit of Stontop UST will cover approximately 18.6 m² of surface at a 2 mm nominal thickness.

STORAGE CONDITIONS

Store all components of Stontop UST between 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

Stontop UST is available in 8 base colors. Please refer to the Stontop Color Sheet. Custom colors are available upon request.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen TD9) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

PRIMING

The use of Quik Primer is necessary for all applications of Stontop UST. The Quik Primer must be tack-free prior to the application of the undercoat.

APPLYING

Application of the Stontop UST system is accomplished as follows:

1. Quik Primer is mixed and applied to the floor with a squeegee and nap roller. Texture 3 Aggregate is broadcast into the wet primer using a special Stonhard Spraycaster. Allow 3 to 4 hours to cure and sweep off excess aggregate.
2. Stonseal PA7 is mixed and applied with a squeegee, then rolled with a medium nap roller.
3. Stontop Aggregate is broadcast into the freshly rolled Undercoat using a special Stonhard Spraycaster to ensure even distribution of the aggregate. Allow to cure until the floor is tack-free (3 to 4 hours at 22°C).
4. Sweep the floor to remove all loose aggregate particles, then vacuum.
5. Stontop Stain is then applied using an electric airless sprayer. Stain should be applied in a consistent yet random pattern. Additional colors may be applied once the first color is completely dry.
6. Stonseal CA7 is mixed and applied. The sealer is applied using a rubber squeegee and then rolled using a medium nap roller.

Refer to the Stontop UST Directions for further detail.

HIGH HUMIDITY APPLICATIONS

It is common to have installation difficulties when applying Stontop UST Undercoat and Sealer under high humidity conditions. The working time of the Undercoat and Sealer are 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.

RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of Stontop UST components and substrate are not within 5 to 30°C. **The cure time and application properties of the material are severely affected.**
- DO NOT use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and other properties.**
- Use only with adequate ventilation.
- A NIOSH approved air purifying respirator (APR) equipped with organic vapor/acid gas cartridges is required during application of the Stontop Primer.
- Avoid contact with all liquid isocyanate and polyol resin as they may cause skin and/or eye irritation. Workmen should cover hands with impermeable rubber gloves.

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 Stonshield Chemical Resistance Guide.
- Safety Data Sheets for Stontop UST are available on line at www.stonhard.com under Tech Info or upon request.
- 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.

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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