

PRODUCT DESCRIPTION

Stontop EST is a nominal 2 mm quartz aggregate broadcast that incorporates decorative stains into the process to achieve a unique, mottled, lightly textured appearance. Stontop EST combines this decorative appearance with excellent wear resistance. This system is comprised of:

Quick Primer

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

Stonkote GS4 Pewter

A two-component, free flowing epoxy formulation consisting of resin and curing agent

Stontop Aggregate

Stainable quartz broadcast aggregate

Stontop Stain

A single component, translucent waterborn stain

Stonkote CE4

A two-component, high performance, UV resistant, clear epoxy sealer

USES, APPLICATIONS

Stontop EST is a seamless and decorative 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 EST 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 EST is packaged in units for easy handling. Each unit consists of:

Quick Primer

0.66 carton containing:

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

Undercoat

0.5 carton Stonkote GS4 containing:

- 4 foil bags of Amine
- 4 poly bags of Resin

Texture #3

1.5 individual bags of quartz aggregate

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	11 N/mm ²
Flexural Strength (ASTM-C790)	28 N/mm ²
Flexural Modulus of Elasticity (ASTM-D790)	6.9 x 10 ³ N/mm ²
Hardness (ASTM D-2240, Shore D)	85 to 90
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
Thermal Coefficient of Linear Expansion (ASTM C-531)	2.52 x 10 ⁻⁷ mm/m°C
Cure rate (at 25°C)	24 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.

Stontop Aggregate

4 individual bags of stainable quartz aggregate

Stontop Stain

1 gallon bottle

Sealer

0.5 carton Stonkote CE4 containing:

- 6 foil bags of Amine
- 6 poly bags of Resin

COVERAGE

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

STORAGE CONDITIONS

Store all components of Stontop EST between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

COLOR

Stontop EST is available in 8 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 EST. The Quik Primer must be tack-free prior to the application of the undercoat.

APPLYING

Application of the Stontop EST system is accomplished as follows:

1. Quik Primer is mixed then 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, then sweep off excess aggregate.
2. Stonkote GS4 is mixed then 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 at least 8 hours to cure.
4. Sweep the floor to remove all loose aggregate particles, and the 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 to create the desired mottled look.
6. Stonkote CE4 is mixed then applied. For a standard texture, the sealer is applied using a rubber squeegee and the rolled using a medium nap roller.

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.

Refer to the Stontop EST Directions for further detail.

RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of Stontop EST components and substrate are not within 16 to 30°C. The cure time and application properties of the material will be severely affected by temperature.
- DO NOT use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- 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 Parts A and B as they may cause skin/or eye irritation. Workmen should cover hands with impermeable rubber gloves.
- Use only with adequate ventilation.

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 EST 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 products.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located worldwide.

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