

### PRODUCT DESCRIPTION

ShieldTop ES is a nominal 1.5 mm thick flooring resurfacing system with a decorative, slip resistant surface. Its slip resistant surface remains stain resistant and easy to clean, it is comprised of:

#### **Stonshield Undercoat**

A three-component, free flowing epoxy formulation consisting of resin, curing agent and aggregate.

#### **Stonshield Aggregate**

Brightly colored, quartz broadcast aggregate

#### **Stonkote CE4**

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

### PACKAGING

ShieldTop ES is packaged in units for easy handling. Each unit consists of:

#### **Stonshield Undercoat**

0.75 carton containing:  
6 foil bags of Amine  
6 poly bags of Resin

0.75 carton containing:  
6 bags of Stonshield Filler

#### **Stonshield Aggregate**

6 individual bags of colored quartz aggregate

#### **Stonkote CE4**

##### **Standard Texture**

0.75 carton containing:  
6 foil bags of Amine  
6 poly bags of Resin

##### **Medium Texture**

One carton containing:  
6 foil bags of Amine  
6 poly bags of Resin

### COVERAGE

Each unit of ShieldTop ES will cover approximately 27.9 m<sup>2</sup> of surface at a 1.5 mm nominal thickness.

### STORAGE CONDITIONS

Store all components of ShieldTop ES 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.

### PHYSICAL CHARACTERISTICS

Abrasion Resistance (ASTM D-4060, CS-17)	0.06 gm max. weight loss
Cure Rate (@ 25°C)	12 hours for foot traffic 24 hours for normal operations
VOC Content (ASTM D-2369)	Stonshield Undercoat - 34 g/l Stonkote CE4 - 34 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.

### COLOR

ShieldTop ES is available in 2 solid colors and 10 tweed pattern standard colors. Refer to the Stonshield Color Sheet. Custom colors are available upon request.

### SUBSTRATE

ShieldTop ES is designed as a resurfacing layer for an existing floor system or to be combined with one of Stonhard's mortar systems. It is not designed to be installed directly on a concrete substrate. Typically, this system will be installed over an existing epoxy or urethane base floor system. For questions regarding an appropriate substrate, contact Stonhard's Technical Service Department.

### 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 a primer prior to the application of the ShieldTop system is typically not required. However, if the existing system is very porous, priming with HT Primer will minimize undercoat soak in and result in a better application. The HT Primer must be allowed to cure prior to overlaying with the Stonshield Undercoat. Questions regarding priming prior to the application of the ShieldTop should be directed to Stonhard's Technical Service Department.

## APPLYING

- DO NOT attempt to install material if the temperature of ShieldTop ES 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.
- Stonshield Undercoat is mixed then applied with a steel squeegee, then rolled with a loop roller. Stonshield Aggregate is broadcast into the freshly rolled undercoat. Allow at least 8 hours to cure.
- Scrape and sweep the floor to remove all loose aggregate particles, then vacuum.
- Stonkote CE4 is mixed then applied.
- Refer to the ShieldTop ES Directions for further detail.

## 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 ShieldTop ES 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 ShieldTop ES are available on line at [www.stonhard-europe.com](http://www.stonhard-europe.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 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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