

### PRODUCT DESCRIPTION

Stonshield QBT is a nominal 1/8 to 3/16 in./3 to 5 mm thick durable flooring system with a decorative, slip resistant surface. Its troweled base provides superior impact resistance and can be applied over rough substrates. The color quartz broadcast topshield layer results in an attractive floor surface that is textured for safety. It is comprised of:

#### *Stonshield QBT Base*

A three-component, troweled mortar base consisting of epoxy resin, curing agent and color quartz aggregate

#### *Stonshield Aggregate*

Brightly colored, quartz broadcast aggregate

#### *Stonkote CE4*

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

### SYSTEM OPTIONS

#### *Waterproofing*

Where the total system must be waterproof, use of Stonhard's Stonproof ME7 membrane system is required with strict adherence to application instructions.

#### *Cove Base*

To provide an integral seal at the joint between the floor and the wall cove bases in heights from 2 to 6 in./5 to 15 cm are available.

### TEXTURE

The system is supplied with sufficient sealer for a typical Medium Texture finish. If a more aggressive texture is desired, apply the sealer coat thinner. It is important to understand the customer's expectations with respect to texture and cleanability.

### PACKAGING

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

#### *Stonshield QBT Base*

2 cartons of Stonshield Undercoat, each containing:

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

12 individual bags of Part C colored quartz aggregate

#### *Broadcast Aggregate*

6 individual bags of colored quartz aggregate

#### *Stonkote CE4*

- 1 carton containing:
  - 6 foil bags of Amine
  - 6 poly bags of Resin

### PHYSICAL CHARACTERISTICS

<b>Compressive Strength</b> .....	7,600 psi
(ASTM C-579)	after 7 days
<b>Tensile Strength</b> .....	1,100 psi
(ASTM C-307)	
<b>Flexural Strength</b> .....	1,200 psi
(ASTM C-580)	
<b>Flexural Modulus of Elasticity</b> .....	$4.0 \times 10^5$ psi
(ASTM C-580)	
<b>Hardness</b> .....	.85 to 90
(ASTM D-2240, Shore D)	
<b>Impact Resistance</b> .....	> 160 in./lbs.
(ASTM D-2794)	
<b>Abrasion Resistance</b> .....	.006 gm max. weight loss
(ASTM D-4060, CS-17)	
<b>Thermal Coefficient of</b>	
<b>Linear Expansion</b> .....	$1.8 \times 10^{-5}$ in./in. °C
(ASTM C-531)	
<b>Water Absorption</b> .....	.0.1%
(ASTM C-413)	
<b>Heat Resistance Limitation</b> .....	140°F/60°C
	(for continuous exposure)
	200°F/93°C (for intermittent spills)
<b>VOC Content</b> .....	Stonshield QBT Base - 34 g/l
(ASTM D-2369)	Stonkote CE4 - 34 g/l
<b>Cure Rate</b> .....	12 hours for foot traffic
(@ 77°F/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. 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 QBT will cover approximately 300 sq. ft./27.9 sq. m of surface at a nominal 1/8 in./3 mm thickness.

**Note:** At 3/16 in./5 mm Stonshield QBT Base should be installed at 200 sq. ft./18.58 sq. m. Extra base material will need to be ordered.

## STORAGE CONDITIONS

Store all components of Stonshield QBT between 60 to 85°F/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

Stonshield QBT 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

Stonshield QBT, in conjunction with its appropriate primer, is suitable for application over properly prepared concrete, both new and old. It is also designed for renovation work over wood or sound brick and quarry tile. For questions regarding other substrates or an appropriate primer, contact your local 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 representative or Technical Service.

## PRIMING

The use of Stonblend Primer is necessary for all applications of Stonshield QBT base over all substrates except Stonset grouts. Over Stonset grouts, Stonhard's Stonblend Grout Coat is used. See the appropriate primer product data sheet for details.

## MIXING

Mixing is accomplished by mechanical means. The Stonshield QBT Mortar is mixed using a JB Blender or appropriate bulk mixer. The Stonkote CE4 is mixed using a drill and mixing blade. Refer to the Stonshield QBT Directions for details.

## APPLYING

- DO NOT attempt to install material if the temperature of Stonshield QBT components and substrate are not within 60 to 85°F/16 to 30°C. The cure time and application properties of the material are severely affected.
- Material must be applied immediately after mixing.
- Stonshield QBT base is screeded at 1/8 in. /3mm and troweled into wet primer.
- Stonshield Aggregate is broadcast immediately into the freshly troweled Stonshield QBT base.
- Sweep the floor to remove loose aggregate, then vacuum.
- Stonkote CE4 is then mixed and applied.
- Refer to Stonshield QBT 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 Stonshield Chemical Resistance Guide. If a coating is utilized to seal the Stonshield QBT surface, please ensure that you consult the Product Data sheet for the coating for details regarding chemical resistance of the coating utilized.
- Material Safety Data Sheets for Stonshield QBT are available on line at [www.stonhard.com](http://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.

### IMPORTANT:

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