

PRODUCT DESCRIPTION

Stonshield QBT is a nominal 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 instruction.

Cove Base

To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 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

6 individual bags of part C colored quartz aggregate

Broadcast Aggregate

9 individual bags of colored quartz aggregate

Stonkote CE4

1 carton containing:

6 foil bags of Amine

6 poly bags of Resin

COVERAGE

Each unit of Stonshield QBT will cover approximately 27.9 m² of surface at a nominal 3 mm thickness.

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-579)	50 N/mm ² after 7 days
Tensile Strength (ASTM C-307)	7 N/mm ²
Flexural Strength (ASTM C-580)	8 N/mm ²
Flexural Modulus of Elasticity (ASTM C-580)	2.7 x 10 ³ N/mm ²
Hardness (ASTM D-2240, Shore D)	85 to 90
Impact Resistance (ASTM D-2794)	> 18 Nm
Abrasion Resistance (ASTM D-4060, CS-17)	0.06 gm max.weight loss
Thermal Coefficient of Linear Expansion (ASTM C-531)	3.2 x 10 ⁻⁵ mm/m°C
Water Absorption (ASTM C-413)	0.1%
Heat Resistance Limitation	60°C (for continuous exposure) 93°C (for intermittent spills)
VOC Content (ASTM D-2369)	Stonshield QBT base - 34 g/l Stonkote CE4 - 34 g/l
Cure Rate (@ 25°C)	12 hours for Foot traffic 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.

Note: At 5 mm Stonshield QBT Base should be installed at 18.6 m² extra base material will need to be ordered.

STORAGE CONDITIONS

Store all components of Stonshield QBT 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

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's 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 16 to 30°C. The cure time and application properties of the material are severely affected by temperatures outside of this range.
- Material must be applied immediately after mixing.
- Stonshield QBT base is screeded at 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 online at www.stoncor-europe.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.
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- 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.

CE MARKING

The harmonized European Standard EN 13813 „Screed material and floor screeds- Screed materials - Properties and require-ments“ specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification they have to be CE-labeled as **per Annex ZA., Table ZA.1.5 and 3.3** and fulfill the requirements of the given mandate of the Construction Products Regulation no. 305/2011

	
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DOP-2013.05.006	
EN 13813 SR-AR1.0-B2.0-IR18	
Synthetic resin flooring system for use internally in buildings (system as per Product Data Sheet)	
Release of corrosive substances:	SR
Wear resistance:	AR1.0
Adhesion strength by pull-off test:	> B2.0
Impact resistance:	IR18
Chemical resistance:	CRG*
* CRG: see Stonhard Chemical Resistance Guide	

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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