

### PRODUCT DESCRIPTION

Stonshield Xpress is a nominal 2 mm to 3 mm quartz broadcast flooring system with quick installation turn-around time that combines a decorative appearance with excellent chemical, stain and wear resistance. Its slip resistant surface remains stain resistant and easy to clean.

### SYSTEM OPTIONS

#### Waterproofing

Where the total system must be waterproof, the use of Stonhard's Stonproof ME7 membrane system with Texture #3 broadcast to refusal is required with a strict adherence to application instructions.

#### Crack Treatment

When crack treatment is needed due to cracks in the substrate, the use of Stonhard's Stonproof CT5 or RH7 with Texture #3 broadcast to refusal is required with a strict adherence to application instructions.

#### 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.

#### Thickness

For areas requiring increased thickness, a 3 to 5 mm of mortar may be added.

### PACKAGING

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

#### Xpress Primer

(0.5) c.a. 20 liter pail of acrylic resin

#### Stonshield Aggregate - 2 mm option

10 individual bags of coloured quartz aggregate

#### Stonshield Aggregate - 3 mm option

15 individual bags of coloured quartz aggregate

#### Xpress Undercoat - 2 mm option

(1) c.a. 20 liter pail of acrylic resin

#### Xpress Undercoat - 3 mm option

(1.5) c.a. 20 liter pail of acrylic resin

#### Xpress Sealer

(1) c.a. 20 liter pail of acrylic resin

#### Xpress Catalyst – 2 mm option

(0.4) c.a. 8 liter pail of catalyst

#### Xpress Catalyst – 3 mm option

(0.5) c.a. 8 liter pail of catalyst

#### Xpress Solvent

(0.01) c.a. 20 liter pail of solvent

### COVERAGE

Each unit of Stonshield Xpress will cover approximately 23.2 m<sup>2</sup> of surface at 2 mm or 3 mm nominal thickness.

### STORAGE CONDITIONS

Store all components between 16 to 25°C in a dry area. Keep out of direct sunlight. Avoid excessive heat and do not freeze. Shelf life is one year in the original unopened container.

### COLOUR

Stonshield Xpress is available in twelve standard colours. Refer to the Stonshield Colour Sheet. Custom colours are available upon request.

### PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	40,6 N/mm <sup>2</sup>
Hardness (ASTM D-2240, Shore D)	80
Impact Resistance (ASTM D-4226)	> 18 Nm
Abrasion Resistance (ASTM D-4060, CS-17)	0.06 gm* max. weight loss (sealed)
Flexural Strength (ASTM D-790)	13,8 N/mm <sup>2</sup>
Flexural Modulus of Elasticity (ASTM D-790)	1.17 x 10 <sup>4</sup> N/mm <sup>2</sup>
Linear Coefficient of Thermal Expansion (ASTM C-531)	32.4 x 10 <sup>-5</sup> mm/m°C
VOC Content (ASTM D-2369, Method E)	Xpress Primer – 42 g/l Xpress Undercoat – 37 g/l Xpress Sealer – 40 g/l
Cure Rate	One hour for normal operations
Installation Temperature Range	-17°C to 6°C

**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.

### SUBSTRATE

Stonshield Xpress, with the appropriate primer, is suitable for application over properly prepared concrete, wood, brick, quarry tile, metal or Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard 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.

**Note:** For applying over an existing MMA floor, the surface must be sanded and Xpress Solvent wiped.

### PRIMING

The use of Xpress Primer is necessary for all applications of Stonshield Xpress over all substrates other than existing MMA floors. Aggregate must be seeded into the wet primer to provide traction for the following steps. The Xpress Primer must be fully cured and concrete must be completely sealed off prior to the application of the Under-coat.

## MIXING

- Proper mixing is critical for the products to exhibit the proper application properties, cure properties and ultimate physical properties.
- Mechanical mixing is required for all components.
- Refer to Stonshield Xpress Directions for further details.

## APPLYING

- DO NOT attempt to install material if the temperature of the Stonshield Xpress components are not within 16 to 25°C.
- Xpress primer is mixed, applied to the floor and sparsely broadcasted with Stonshield Aggregate. The primer is allowed to cure.
- Xpress Undercoat is mixed, applied to floor and broadcasted to refusal with Stonshield Aggregate. The undercoat is allowed to cure and excess aggregate is removed.
- Apply one or two more layers of Xpress undercoat and Stonshield Aggregate to achieve the proper thickness.
- Xpress sealer is mixed, applied to the floor and allowed to cure.
- A second coat of Xpress sealer is applied to achieve desired texture.
- Refer to the Stonshield Xpress Directions for further detail.

## CLEANING UP

Xpress Solvent is recommended for cleanup of the unreacted Xpress Sealer material. The reacted material will require mechanical means of removal. Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.

## PRECAUTIONS

- Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- **The use of NIOSH/MSHA approved respirators using an organic vapor/acid gas cartridge is mandatory.**
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body-covering apparel, safety goggles or safety glasses and impermeable gloves are required.
- In case of contact, flush area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- If Material is ingested, immediately contact a physician. **DO NOT INDUCE VOMITING.**
- Use only with adequate ventilation. Inhalation of vapors may cause severe headaches, nausea and possibly unconsciousness.
- During prep-work of floor substrate or mixing of Stonhard product while adding aggregate, dust masks must be worn.

## NOTES


- Procedures for maintenance of the flooring system during operations are described in the Stonklean Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available in the Stonshield Chemical Resistance Guide.
- Safety Data Sheets for Stonshield Xpress are available on line at [www.stonhard-europe.com](http://www.stonhard-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 flooring

products.

- Requests for technical service or 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

## CE MARKING

The harmonized European Standard EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" 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-labelled as per Annex ZA., Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011

	
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DOP-2013.05.008 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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