

### PRODUCT DESCRIPTION

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

#### **Xpress Primer**

A two-component, low viscosity, methyl methacrylate resin primer

#### **Xpress undercoat**

A two-component, low viscosity methyl methacrylate resin

#### **Stonshield Aggregate**

Brightly coloured, quartz broadcast aggregate

#### **Xpress Sealer**

A two-component, low viscosity, UV resistant, methyl methacrylate sealer

### OPTIONS

#### **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.

#### **Smooth Finish**

Additional layers of Xpress Sealer may be added to produce a very smooth finish for additional cleanability.

**Note:** Adding an additional layer of sealer will lower the coefficient of friction and slip resistance index values listed above.

#### **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) 5 gallon 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) 5 gallon pail of acrylic resin

#### **Xpress Undercoat - 3 mm option**

(1.5) 5 gallon pail of acrylic resin

### PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	40 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)
Cure Rate (@25°C)	One hour for normal operations
Flexural Strength (ASTM D-790)	13 N/mm <sup>2</sup>
Flexural Modulus of Elasticity (ASTM D-790)	1.17 x10 <sup>4</sup> N/mm <sup>2</sup>
Linear Coefficient of Thermal Expansion (ASTM C-531)	59 x10 <sup>-6</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

**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

#### **Xpress Sealer**

(1) 5 gallon pail of acrylic resin

#### **Xpress Catalyst - 2 mm option**

(0.25) 2 gallon pail of catalyst

#### **Xpress Catalyst - 3 mm option**

(0.3) 2 gallon pail of catalyst

#### **Xpress Solvent**

(0.05) 5 gallon 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.

## COLOUR

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

## 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. The Xpress Primer must be fully cured and concrete must be completely sealed off prior to the application of the Undercoat.

## 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.
- See 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.

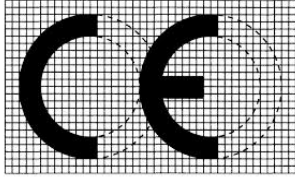
Refer to the Stonshield Xpress Directions for further detail.

## 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.
- 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 NIOSH approved air purifying respirator (APR) equipped with organic vapor/acid gas cartridges is required during application of the Xpress Primer.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with impermeable rubber gloves.
- Use only with adequate ventilation.
- 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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