

PRODUCT DESCRIPTION

Stonshield Xpress SL is a nominal 4.5 mm self-leveling, quartz broadcast flooring system that combines a decorative appearance with excellent chemical, stain and wear-resistance. This methyl methacrylate resin-based system provides quick turn-around times and a moderate degree of slip resistance.

OPTIONS

Waterproofing

Where the total system must be waterproof, use of Stonhard's Stonproof ME7 membrane system with Texture 3 broadcast to refusal is required, with 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 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, system components can be adjusted for an overall thickness of 6 mm.

PACKAGING

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

Xpress Primer

(0.5) c.a. 20 liter pail of Xpress Primer Resin

Texture 3

1.5 individual bags of Silica

Xpress Undercoat

(2) c.a. 20 liter pail of Xpress Undercoat Resin

Xpress SL Part C

12 bags of Silica Aggregate

Stonshield Aggregate

12 bags of colored Quartz Aggregate

Xpress Sealer

(1) c.a. 20 liter pail of Xpress Sealer Resin

Xpress Solvent

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

Xpress Catalyst

(0.5) c.a. 20 liter pail of Catalyst

Note: For applications below 0°C, additional catalyst must be ordered. Contact Stonhard Technical Service for recommendations.

COVERAGE

Each unit of Stonshield Xpress SL will cover approximately 23.2 m² of surface at 4.5 mm nominal thickness.

PHYSICAL CHARACTERISTICS

Compressive Strength.....	53.8 N/mm ² (ASTM C-579)
Tensile Strength	15.1 N/mm ² (ASTM D-638)
Tensile Modulus	8.96 x 10 ² N/mm ² (ASTM D-638)
Hardness	53 (ASTM D-2240, Shore D)
Abrasion Resistance	19 mg (ASTM D-4060, CS-17)
Water Absorption.....	0.19 % (ASTM C-413)
VOC Content	Xpress Primer - 42 g/l (ASTM D-2369, Method E).....Xpress Undercoat - 37 g/lXpress Sealer - 40 g/l
Cure Rate.....	1 hour for normal operations
Installation Temperature Range	-17°C to 26°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 coupons.

STORAGE CONDITIONS

Store all components of Stonshield Xpress SL between 16°C and 25°C in a dry area. Avoid excessive heat and sunlight and do not freeze. Shelf life is one year in the original un-opened container.

COLOR

Stonshield Xpress SL is available in twelve standard colors. Refer to the Stonshield Color Sheet. Custom colors are available upon request.

SUBSTRATE

Stonshield Xpress SL, 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 SL over all substrates other than existing MMA floors. The Xpress Primer must be tack-free and concrete must be completely sealed off prior to the application of the Stonshield Xpress SL.

MIXING

Note: Refer to the Xpress Catalyst chart for appropriate ratios of liquid to catalyst for the installation.

- 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 the Stonshield Xpress SL Directions for further details.

APPLYING

- DO NOT attempt to install material if the temperatures of the Stonshield Xpress SL components are not within 16°C and 25°C.
- Xpress primer is mixed, applied to the floor and sparsely broadcasted with Texture 3. The primer is allowed to cure and excess aggregate is removed.
- Xpress undercoat and Xpress SL Part C are mixed, applied to the floor and broadcasted to refusal with Stonshield aggregate. The undercoat is allowed to cure and excess aggregate is removed.
- Xpress undercoat is mixed, applied to the floor and broadcasted to refusal with Stonshield aggregate. The undercoat is allowed to cure and excess aggregate is removed.
- Xpress sealer is mixed, applied to the floor and allowed to cure.
- A second coat of Xpress sealer is applied to the floor and allowed to cure.
- Refer to the Stonshield Xpress SL Directions for further details.

CLEANING UP

Xpress Solvent is recommended for clean up of the unreacted Xpress material. The reacted material will require mechanical means of removal.

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 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 SL are available online at 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 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.

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.

Rev.03/21
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