

PRODUCT DESCRIPTION

Stontec Xpress is a nominal 2 mm to 3 mm 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 waterproofed, 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 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

Stontec Xpress is packaged in units for easy handling.

Each unit consists of:

Xpress Primer

(0.5) 20 liters of Xpress Primer Resin

Stonshield Aggregate

0.5 individual bag of colored quartz aggregate

Stontec Xpress Undercoat - 2mm option

(1.33) 20 liter pail of Xpress Undercoat Resin

6.67 bags of undercoat filler

Stontec Xpress Undercoat - 3mm option

(2) 20 liters pails of Xpress Undercoat Resin

10 bags of undercoat filler

Stontec Flakes

0.83 individual boxes of small (1.6 mm) colored flakes

or

0.625 individual boxes of large (6.3 mm) colored flakes

Xpress Sealer

(1) 20 liter pail of Xpress Sealer Resin

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	40.7 N/mm ²
Hardness (ASTM D-2240, Shore D)	80
Impact Resistance (ASTM D-4226)	>18 N/m.
Abrasion Resistance (ASTM D-4060, CS-17)	0.02 gm max. weight loss (sealed)
Flexural Strength (ASTM D-790)	13.8 N/mm ²
Flexural Modulus of Elasticity (ASTM D-790)	0.6 × 10 ³ N/mm ²
VOC Content (ASTM D-2369, Method E)	Xpress Primer - 42 g/l Xpress Undercoat - 37 g/l Xpress 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.

Xpress Catalyst - 2 mm option

(0.4) 10 liter pail of catalyst

Xpress Catalyst - 3 mm option

(0.5) 10 liter pail of catalyst

Xpress Solvent

(0.01) 20 liter pail of solvent

COVERAGE

Each unit of Stontec Xpress will cover approximately 23.2 m² of surface at 2 mm or 3 mm nominal thickness.

STORAGE CONDITIONS

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

COLOR

Stontec Xpress is available in twelve standard colors in small (1/16 in.) or large (1/4 in.) sized flakes. Refer to the Stontec Color Sheet. Custom colors are available upon request.

Note: Micro (1/32 in.) flakes are available on special request.

SUBSTRATE

Stontec 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 Stontec Xpress Primer is necessary for all applications of Stontec 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 Stontec Xpress Primer must be tack-free 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.
- Refer to the Stontec Xpress Directions for further details.

APPLYING

- DO NOT attempt to install material if the temperatures of the Stontec 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 and excess aggregate is removed.
- The undercoat is mixed, applied to the floor, and broadcast to refusal with Stontec Flakes. The undercoat is allowed to cure and excess flake is removed.
- Xpress sealer is mixed, applied to the floor, and allowed to cure. The floor is lightly sanded and vacuumed.
- A second Xpress sealer is applied to the floor and allowed to cure.
- Refer to the Stontec Xpress Directions for further detail.

CLEANING UP

Xpress Solvent is recommended for clean-up of the unreacted Stonkote Xpress 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

- DO NOT use water or steam in the vicinity of the application.
- The use of suitable protective clothing, gloves and safety glasses must be worn during mixing and application of the product. The use of NIOSH approved respirators equipped with organic vapor cartridges is mandatory.
- Avoid contact with the resin and catalyst as they may cause skin and/or eye irritation. In case of contact, immediately flush the area with copious amounts of clean water for at least 15 minutes and seek medical attention. Workmen should cover their hands with impervious gloves. Wash hands thoroughly with soap and water after use, and before eating, smoking, etc.
- Product is highly flammable, keep away from heat and all sources of ignition. DO NOT SMOKE! Use only with adequate ventilation.
- Explosion-proof ventilation must be used during the application to minimize vapor collection in the installation area and to improve overall air quality for the crew. A fresh air exchange should be set up, if possible, in the installation area during application. A Safety Installation Plan is available upon request.
- Avoid storing this material near any other Stonhard products. The MMA-based products will react violently if exposed to amine hardeners.

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 Stontec Chemical Resistance Guide.
- Safety Data Sheets for Stontec Xpress 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.

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