

PRODUCT DESCRIPTION

Stontec Xpress is a nominal 1/8 in./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. It is comprised of:

Stontec Xpress Primer

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

Stontec Xpress Undercoat

A three-component, medium viscosity, methyl methacrylate resin

Stontec Flakes

Brightly coloured flakes

Stontec Xpress Sealer

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

USES, APPLICATIONS

Stontec Xpress is a decorative, methyl methacrylate floor surfacing system designed to provide a durable, chemical resistant, attractive, cleanable surface for light traffic areas. It is ideal for use in retail and commercial environments, laboratories, hallways, offices and holding areas in healthcare, educational and correctional facilities and a wide variety of light manufacturing areas. After mixing and application, Stontec Xpress cures to a dense, impervious surface. It is available in solid and tweed colour patterns. Stontec Xpress can be installed at low temperatures (coolers, freezers, exterior applications, etc.) with minimal impact to cure times and schedule.

SUBSTRATE

Stontec Xpress, in conjunction with its appropriate primer, is suitable for application over properly prepared concrete, wood or steel surfaces. Not recommended for use over asphalt, mastic, gypsum-based products, brick or painted surfaces. These must first be removed by mechanical means to expose the substrate prior to priming and overlayment.

OPTIONS

Cove Base

To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 2 to 6 in./5 to 15 cm are available.

Thickness

For areas requiring increased thickness, a 1/8 to 3/16 in./3 to 5 mm of mortar may be added.

PACKAGING

Stontec Xpress is packaged in units for easy handling.

PHYSICAL CHARACTERISTICS

Tensile Strength5,900 psi
(ASTM D-638)	
Hardness80
(ASTM D-2240, Shore D)	
Bond Strength	>300 psi
(ASTM D-7234)	(100% concrete failure)
Impact Resistance	>160 in./lbs.
(ASTM D-4226)	
Abrasion Resistance03 gm max. weight loss
(ASTM D-4060, CS-17)	(sealed)
Cure Rate	One hour
(@ 77°F/25°C)	for normal operations
Coefficient of Friction (Dry)075
(ASTM F-1679)	
Slip Resistance Index (Wet)063
(ASTM F-1679)	
Flexural Strength2,000 psi
(ASTM D-790)	
Flexural Modulus of Elasticity0.9x10 ⁶ psi
(ASTM D-790)	
Linear Coefficient of Thermal Expansion33x10 ⁻⁶ in./in. °F
(ASTM C-531)	

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.

Each unit consists of:

Stontec Xpress Primer

(0.5) 5 gallon pail of acrylic resin

Stonshield Aggregate

1 individual bags of coloured quartz aggregate

Stontec Xpress Undercoat

(2) 5 gallon pail of acrylic resin

10 bags of undercoat filler

Stontec Flakes

0.83 individual boxes of 1/16 inch coloured flakes
or

0.625 individual boxes of 1/4 inch coloured flakes

Stontec Xpress Sealer

(0.5) 5 gallon pail of acrylic resin

Xpress Catalyst

(0.3) 2 gallon pail of catalyst

Xpress Solvent

(0.2) 5 gallon bucket of solvent

COVERAGE

Each unit of Stontec Xpress will cover approximately 250 sq. ft./23.2 sq. m of surface at 3 mm nominal thickness.

STORAGE CONDITIONS

Store all components of Stontec Xpress between 60 to 77°F/16 to 25°C in a dry area. Avoid excessive heat, sunlight and do not freeze.

COLOUR

Stontec Xpress is available in 12 standard colours and in 1/16 or 1/4 in. sized flakes. Refer to the Stontec Colour Sheet. Custom colours are available upon request.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen TD9) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

Note: For applying over a 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. The Stontec Xpress Primer must be tack-free and concrete must be completely sealed off prior to the application of the Undercoat.

APPLICATION

Application of the Stontec Xpress system is accomplished as follows:

1. Xpress primer is mixed and applied immediately to the floor. The material is distributed using nap rollers. Stonshield Aggregate is sparsely hand broadcasted into the wet primer. Allow one hour to cure.

2. Stontec Xpress Undercoat is mixed and poured onto the substrate and raked with a 3mm notched rake and then rolled.
3. After 5 minutes, begin hand broadcasting the coloured flakes into the wet undercoat until a complete and even layer is bound to undercoat. Let cure for 90 minutes and remove excess flakes.
4. Xpress sealer is mixed and applied to the floor using 18 inch rollers to distribute the material.
5. Once the Xpress sealer is cured, sand the surface with a rotary sanding machine. Vacuum the surface to ensure that it is free of any debris.
6. Apply the second coat of Xpress sealer in the same manner of the first.

Refer to the Stontec Xpress Directions for further detail.

RECOMMENDATIONS

- DO NOT attempt to install material if the temperatures of the Stontec Xpress components are not within 60 to 77°F/16 to 25°C.
- 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. NIOSH/MSHA approved respirators are required.
- **Avoid Contact!** In case of contact with eyes, rinse immediately with water and contact a physician. In case of contact with skin, clean immediately with soap and water.
- **Product is highly flammable, keep away from heat and all sources of ignition. DO NOT SMOKE!** Use only with adequate ventilation.
- Explosion proof mechanical ventilation units must be used during the application to minimize vapour 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 or products containing isocyanates.**

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 Stontec Chemical Resistance Guide.
- Material Safety Data Sheets for Stontec Xpress are available on line at www.stonhard.ca under Tech Info 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.

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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