

### PRODUCT DESCRIPTION

Stondeck FD2 is a slip-resistant, traffic-bearing broadcast system. The use of Stonproof XT7 membrane results in a system that has crack-bridging capability and waterproofing properties. The addition of aggregate in the topcoat provides the system with slip resistance and wear benefits. It is comprised of the following:

#### **Stonproof XT7**

A two-component, free-flowing, elastomeric membrane that can handle dynamic stress. Also ensures the system remains waterproof. Refer to the Stonproof XT7 Product Data sheet for more information.

#### **Stondeck Topcoat**

A two-component, free-flowing, urethane seal coat that locks in the broadcast aggregate.

### PACKAGING

Stondeck FD2 is packaged in units for easy handling. Each unit consists of:

Note: The Primer required for this application is not included in the unit and MUST BE ordered separately.

#### **Stonproof XT7**

- (1) 5-gallon pail of Stonproof XT7 Isocyanate
- 0.5 carton of Stonproof XT7 Amine containing:
  - (2) 1-gallon cans of Stonproof XT7 Amine

#### **Stondeck Topcoat**

- 0.5 Carton of Stondeck Topcoat Isocyanate containing:
  - 2 foil bags of Isocyanate
  - (1) 5-gallon pail of Stondeck BC/TC Polyol

#### **Texture 8 Aggregate**

- 1.0 bag of Aggregate

### COVERAGE

Each unit of Stondeck FD2 will cover approximately 250 sq. ft. of surface.

### STORAGE CONDITIONS

Store all components of Stondeck FD2 between 60° to 85°F/16° to 30°C in a dry area. Avoid excessive heat and do not freeze.

### COLOR

Stondeck FD2 is available in 8 standard colors.

Refer to the Stondeck Topcoat Color Sheet. Custom colors are available upon request.

### SUBSTRATE

Stondeck FD2, in conjunction with the proper primers, is suitable for application over properly prepared concrete, metal, or wood. 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.

### TREATMENT OF JOINTS AND CRACKS

All guidelines and recommendations found in both ASTM C- 1127, Standard Guide for Use of High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane with an Integral Wearing Surface and ASTM C-1193, Standard Guide for use of Joint Sealants should be followed.

Note: Refer to Engineering Details on the Resource Center for more information. These details relate directly to ASTM C-1127.

### PHYSICAL CHARACTERISTICS

Tensile Strength .....	Stonproof XT7 2,100 psi
(ASTM D-638)	Stondeck Topcoat 2,000 psi
Hardness .....	Stondeck Topcoat 73D
(ASTM D-2240 Shore D and A)	Stonproof XT7 84A
Abrasion Resistance.....	Stondeck Topcoat 70 mg
(ASTM D-4060, CS-17)	
VOC Content .....	Stonproof XT7 46 g/l
	Stondeck Topcoat 2 g/l
Cure Rate .....	8-12 hours for foot traffic
(@77°F/25°C)	24 hours for normal operations
Standard System Thickness.....	40 mil
(exclusive of primer and aggregate)	Stonproof XT7 25 mil
	Stondeck Topcoat 15 mil

Requirements for ASTM C-957, system passes for D-6511, C-1305, C-794 and D-471.

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.

### ***Expansion and Isolation Joints on All Deck Levels***

These joints are designed to handle significant structural movement. Typical membrane/wear surface systems are unable to bridge the amount of movement present in these joints and the system should be terminated on either side of the joint and the joint sealant system utilized to address the joint finish. Larger joints greater than 1.5 inches typically require a mechanical joint. Contact technical service for specific recommendations.

### ***Hairline Cracks and Cold Seams***

Hairline cracks (less than 1/16 in. /1.6mm) in width and substrate cold seams are cleaned well and filled with Stonproof XT7 to a width of 3 inches on either side of the crack or seam.

- Cracks and cold seams are cleaned out well to remove loose particles.
- Stonproof XT7 is mixed and applied filling the joint with a minimum of 30 mils of membrane.

### ***Cracks Wider than 1/16 in./1.6mm and Control Joints less than One Inch in Width***

Wider cracks and control joints are pre-filled with a sealant to ensure the membrane layer is uniform across the crack area.

- Cracks larger than 1/16 in./1.6mm are routed out and then filled with a high-performance, medium-modulus, non-sag polyurethane sealant ensuring the filled sealant is flush with the concrete level but not running out onto the deck surface. Contact technical service for the proper sealant recommendation.
- Control joints are detailed with backer rod and filled with a high-performance, medium-modulus, non-sag polyurethane sealant ensuring the filled sealant is flush with the concrete level but not running out onto the deck surface.
- Once the sealant is cured Stonproof XT7 is applied to a width of 3 inches on either side of the crack/joint over the primed area to a thickness of 30 mils.

Note: All control joints located on exposed upper decks must be honored utilizing an appropriate sealant. The deck membrane system must not be applied over the joints in these areas.

### ***Flashing***

Flashing utilizing Stonproof XT7 and appropriate engineering fabric will be utilized where indicated on drawings.

For further questions regarding Stonproof XT7 application, please refer to the Stonproof XT7 Product Data or contact the Technical Service team.

### **PRIMING**

For standard applications of Stondeck FD2, primer is required prior to the application of Stonproof XT7. HT Primer or Stonchem Epoxy Primer are the required primers. Refer to the Stonproof XT7 product data sheet for further details.

### **MIXING**

- Proper mixing is critical for the product to exhibit the proper application properties, cure properties, and ultimate physical properties.
- Mechanical mixing using a slow-speed drill and a mixing blade.
- See Stondeck FD2 Directions for further details.

### **APPLYING**

- For optimal working conditions, install Stondeck FD2 when the material and substrate temperature is between 60° to 85°F/16° to 30°C. The cure time and application properties of the material are severely affected at temperatures outside of this range.
- Material must be applied immediately after mixing.
- Area must be primed using HT Primer or Stonchem Epoxy Primer. Allow primer to cure.
- Apply Stonproof XT7 with a 30-mil notched squeegee.
- Backroll wet material and let cure.
- Once the Stonproof XT7 is cured, apply Stondeck Topcoat with texture 8, with a 15-mil squeegee.
- Be sure to push squeegee rather than pull. Back roll material 3 to 4 times. If areas look like they do not have sufficient aggregate broadcast, lightly broadcast additional Texture 8 in these regions and proceed to backroll/finish roll.
- Finish roll the material.
- Detailed application instructions can be found in the Stondeck FD2 Directions.

### **NOTES**

- Use only with adequate ventilation.
- 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 Stondeck Chemical Resistance Guide.
- Safety Data Sheets for Stondeck are available online at [www.stonhard.com](http://www.stonhard.com) under products or upon request. 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.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

## PRECAUTIONS

- Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- Body covering apparel, safety goggles or safety glasses, and impermeable gloves are required.
- If eye contact occurs, flush the area with copious amounts of 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.
- During prep-work of floor substrate or mixing of Stonhard product while adding aggregate, NIOSH approved N-95 dust masks must be worn.

### 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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