

## STONDECK®FD2 HD

### PRODUCT DESCRIPTION

Stondeck FD2 HD is a slip-resistant traffic bearing broadcast system. The high-performance base allows the system to hold aggregate and provide long-term wear resistance. Stondeck FD2 HD has great waterproofing and crack-bridging functionality. It is comprised of the following:

#### Stonproof XT7

Stonproof XT7 is an elastomeric membrane that can handle dynamic stresses in the substrate ensuring that the system remains waterproof. Refer to the Stonproof XT7 Product Data sheet for more information.

#### Stondeck Basecoat

A two-component, free-flowing, urethane, broadcast accepting base layer.

#### Stondeck Topcoat

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

### PACKAGING

Stondeck FD2 HD 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. Primer is used prior to the application of Stonproof XT7.

#### Stonproof XT7

1 carton of Stonproof XT7 Isocyanate  
(1) c.a. 20 ltr pail of Stonproof XT7 Amine

#### Stondeck Basecoat

1 carton of Stondeck basecoat Isocyanate  
(1) c.a. 20 ltr pail of Stondeck BC/TC Polyol

#### Stondeck Topcoat

1 carton of Stondeck topcoat Isocyanate  
(1) c.a. 20 ltr pail of Stondeck BC/TC Polyol

#### Texture 8 Broadcast Aggregate

3.333 individual bags of aggregate

### COVERAGE

Each unit of Stondeck FD2 HD will cover approximately 23 m<sup>2</sup> of surface at a nominal 3 mm thickness.

### STORAGE CONDITIONS

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

### COLOR

Stondeck FD2 HD is available in 8 standard colors. Refer to the Stondeck Color Sheet. Custom colors are available upon request.

### SUBSTRATE

Stondeck FD2 HD 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.

### PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	Stonproof XT7 14,5 N/mm <sup>2</sup> Basecoat 13,8 N/mm <sup>2</sup> Topcoat 13,8 N/mm <sup>2</sup>
Hardness (ASTM D-2240, Shore D)	Topcoat 73D Membrane 84A
Abrasion Resistance (ASTM D-4060, CS-17)	Topcoat 70 mg max weight loss
VOC Content	Topcoat 2 g/l Stonproof XT7 46 g/l Basecoat 2 g/l
Cure Rate (@25°C)	8-12 hours for foot traffic 24 hours for normal operations
Standard System Thickness	1,8 mm Stonproof XT7 0.6 mm Stondeck Basecoat 0.6 mm Stondeck Topcoat 0.4 mm

**Note:** The above thickness readings are exclusive of primer and aggregate.

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

### 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 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.

### 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 c.a. 25 mm typically require a mechanical joint. Contact Technical Service for specific recommendations.

### Hairline Cracks and Cold Seams

Hairline cracks (less than 1.6 mm) in width and substrate cold seams are cleaned well and filled with Stonproof XT7 to a width of c.a. 51 mm 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 area with a minimum of 0,8 mm of membrane.

### Cracks Wider than 1.6 mm and Control/Expansion Joints Less than 25 mm 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 1.6 mm 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. Please consult the Technical Service to 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 50 mm on either side of the crack/joint over the primed area to a thickness of 0,8 mm.

**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-HD, primer is required prior to the application of Stonproof XT7. HT Primer is the required primer. 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 HD Directions for further details.

### 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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### APPLYING

- For optimal working conditions, install Stondeck FD2 HD when the material and substrate temperature is between 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.
- Apply Stonproof XT7 with a 0,8 mm notched squeegee.
- Backroll the wet material and let cure.
- Once the primer is cured, apply Stondeck Basecoat using a 0,8 mm notched squeegee.
- Backroll and finish roll
- Broadcast Texture 8 to refusal.
- Once cured, remove excess aggregate.
- Apply Stondeck Topcoat with a flat squeegee.
- Detailed application instructions can be found in the Stondeck FD2 HD Directions.

### 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 Stonshield Chemical Resistance Guide.
- Safety Data Sheets for Stondeck are available online at [www.stoncor-europe.com](http://www.stoncor-europe.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 products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.



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