STONHARD

STONDECK® FD2 HD

PRODUCT DATA

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 excellent waterproofing and crack-bridging functionality. 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 Basecoat

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

Stondeck Topcoat

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

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) 5 gallon pail of Stonproof XT7 Amine

Stondeck Basecoat
1 carton of Stondeck basecoat Isocyanate
(1) 5 gallon pail of Stondeck BC/TC Polyol

Stondeck Topcoat
1 carton of Stondeck topcoat Isocyanate
(1) 5 gallon pail of Stondeck BC/TC Polyol

Texture 8 Broadcast Aggregate
6.67 individual bags of aggregate

COVERAGE

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

STORAGE CONDITIONS

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

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	Stonproof XT7 2,100 psi Stondeck Basecoat 2,000 psi Stondeck Topcoat 2,000 psi
Hardness (ASTM D-2240, Shore D)	Stondeck Topcoat 73D Stonproof XT7 84A
VOC Content	Stondeck Topcoat 2 g/l Stonproof XT7 46 g/l Stondeck Basecoat 2 g/l
Cure Rate (@77F˚/25˚C)	8-12 hours for foot traffic 24 hours for normal operations
Standard System Thickness	65 mil Stonproof XT7 25 mil Stondeck Basecoat 25 mil Stondeck Topcoat 15 mil

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.

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.

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.

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 area with a minimum of 30 mils of membrane.

Cracks Wider than 1/16 in./1.6mm and Control/Expansion 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, refer to the Stonproof XT7 Product Data or contact Technical Service.

PRIMING

For standard applications of Stondeck FD2 HD, primer is required prior to the application of Stonproof XT7. HT Primer or Stonchem Epoxy 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.

APPLYING

- For optimal working conditions, install Stondeck FD2 HD 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 the material with a nap roller.
- Once the Stonproof XT7 is cured, apply Stondeck Basecoat using a 30 mil notched squeegee.
- Backroll the material with a nap roller.
- Wait about 15 minutes from the time the material has been squeegeed, then broadcast Texture 8 to refusal.
- Once cured, remove excess aggregate.
- Apply Stondeck Topcoat with a flat squeegee
- Back roll and finish roll.
- Detailed application instructions can be found in the Stondeck FD2 HD Directions.

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 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.
- During prep-work of floor substrate or mixing of Stonhard product while adding aggregate, dust masks must be worn.

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 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.

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Worldwide Offices:

USA	800.257.7953	Mexico	(52)55.9140.4500	Europe	(32) 67.49.37.10	Africa	(27)11.254.5500
Canada	(905)430.3333	South America	(54-11) 5032 3113	Middle East	(971)4.3470460	Asia	(86)21.5466.5118