

PRODUCT DESCRIPTION

Stondeck XD2 is a slip-resistant traffic bearing broadcast system. The high-performance base allows the system to hold aggregate and provide long-term wear resistance. It is comprised of the following:

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 XD2 is packaged in units for easy handling. Each unit consists of:

Stondeck Basecoat

1 carton of Stondeck basecoat isocyanate containing:
(1) c.a. 20 litres pail of Stondeck BC/TC polyol

Stondeck Topcoat

1 carton of Stondeck topcoat isocyanate containing:
(1) c.a. 20 litres pail of Stondeck BC/TC polyol

Texture 8 Broadcast Aggregate

3.33 individual bags of aggregate

COVERAGE

Each unit of Stondeck XD2 will cover approximately 23 m².

STORAGE CONDITIONS

Store all components of Stondeck XD2 between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze.

COLOUR

Stondeck XD2 is available in 8 standard colours. Refer to the Stondeck Topcoat colour sheet. Custom colours are available upon request.

SUBSTRATE

Stondeck XD2, 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 c.a. 25 mm typically require a mechanical joint. Contact Technical Service for specific recommendations.

Hairline Cracks and Cold Seams

Hairline cracks (less than 1.6mm) in width and substrate cold seams are cleaned well and filled with Stonproof XT7 to a width of c.a. 5 cm 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.

PHYSICAL CHARACTERISTICS

Tensile Strength	Stondeck Basecoat 13,8 N/mm ²
(ASTM D-638)	Stondeck Topcoat 13,8 N/mm ²
Hardness	Stondeck Basecoat 75D
(ASTM D-2240, Shore D)	Stondeck Topcoat 73D
VOC Content	Stondeck
Topcoat 2 g/l	Stondeck
Basecoat	Stondeck Basecoat 2 g/l
Cure rate	8-12 hours for foot traffic
(@25°C)	24 hours for normal operations
Standard System Thickness	1 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-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 are 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.

Cracks Wider than 1.6 mm and Control/Expansion Joints Less than 25,4 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 c.a. 51 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, refer to the Stonproof XT7 Product Data or contact the Technical Service team.

PRIMING

For standard applications of Stondeck XD2, no primer is required.

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 XD2 Directions for further details.

APPLYING

- For optimal working conditions, install Stondeck XD2 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.
- No primer is required.
- Apply Stondeck Basecoat with a 0,8 mm notched squeegee.
- Backroll and finish roll material.
- Broadcast Texture 8 to refusal.
- Once cured, remove excess aggregate.
- Apply Stondeck Topcoat with a flat squeegee.
- Wait about 15 minutes from the time the material has been squeegeed, then backroll and finish roll.
- Detailed application instructions can be found in the Stondeck XD2 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.
- 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.

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 Stonshield Chemical Resistance Guide.
- Safety Data Sheets for Stondeck are available online 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.

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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