



PRODUCT CATEGORY: FLOOR PREP

DriSeal® ONYX™

ULTIMATE MOISTURE-VAPOR-BARRIER COATING AND PRIMER

Quick drying 3-4 hours | Roller application | No mixing required

DESCRIPTION: XL Brands® DriSeal® ONYX™ Ultimate Moisture-Vapor Barrier Coating and Primer can be used on both concrete and wood substrates and is suitable for a wide selection of flooring types. It is a durable, water-based system that primes, reduces substrate moisture-vapor emissions, and also works as a barrier for concrete alkalinity. DriSeal® ONYX™ is premixed and is formulated in black to offer a great visual indication of coverage. It is low odor and low VOC, and it contains antimicrobial protection for enhanced resistance to mold and mildew.

BEFORE YOU BEGIN: Important: Proper substrate preparations are essential. Moisture testing may be required based upon the components of the flooring system. Read and understand technical and safety data sheets completely before beginning installation. These documents may be found at www.xlbrands.com. If you have questions, contact XL Brands Technical Department at 706-508-5907.

USAGE: For interior floors over concrete and wood subfloors. Follow floor-covering manufacturer's installation instructions and proper adhesive application rate and method. All substrate preparation and testing procedures must conform to appropriate ASTM F710 guidelines and comply with the floor-covering manufacturer's specification. If DriSeal® ONYX™ is being used over a plywood, high-performance subflooring panels (e.g. Advantech™), or an OSB substrate, ensure the building's climate controls are commissioned and that NVFA guidelines are followed. Wood moisture content must not exceed 15%.

COVERAGE: Coverage will vary based upon substrate condition, including concrete surface profiles as well as wood subfloors and the number of coats required. For applications up to 99%, 2 coats of DriSeal® ONYX™ offer coverage of 100 ft². Required dry film thickness at 2 coats is 8 mil. For up to 90%, 1 coat can offer coverage up to 200 ft². Required dry film thickness at 1 coat is 4.1 mil. For applications using DriSeal® ONYX™ as a primer, or over highly porous concrete, dilute and mix thoroughly 1:1 with clean

USE CHARACTERISTICS

Substrate	<ol style="list-style-type: none"> One-coat application: Use on approved substrates on or above grade with up to 90% RH and pH of 8.0-12.0. Two-coat application: Use on approved substrates on or above grade with up to 99% RH and pH of 8.0-12.0.
Use With	<ol style="list-style-type: none"> Sheet vinyl LVT VCT Carpet Tile
Indoor Air Quality	<ol style="list-style-type: none"> California Section 01350 compliant
Limitations (See limitations section for more information.)	<ol style="list-style-type: none"> Do not allow product to freeze. Do not use in areas subject to hydrostatic head. Use indoors only. Do not use acid etching to prepare substrate surface. Do not thin/dilute product with solvent.

water. Coverage will be 500–800 ft² per gallon of concentrate.

SUBSTRATE CONDITIONS: Make sure the concrete substrate and ambient room temperature are between 40°F and 90°F (4°C to 32°C).

MIXING: DriSeal® ONYX™ does not require mixing. If settling has occurred, DriSeal® ONYX™ can be stirred with a trowel or paint stick prior to application.

APPLICATION: To help ensure proper adhesive bond for installations where a potential moisture-vapor emission problem may exist, apply DriSeal® ONYX™ on concrete with a 3/8" nap roller as an even coat over the entire surface of the floor for the first coat. Make certain to keep the application roller wet with material. Allow DriSeal® ONYX™ to dry for a minimum of 30 minutes for the first coat. Repeat the application for a second coat in a crosshatch pattern and allow this coat to dry for a minimum of 2 hours. It is good practice to always allow ample time necessary for the DriSeal® ONYX™ to cure properly before covering. If the concrete absorption per ASTM F3191 results in water absorption in less than 1 minute, a diluted primer coat is necessary. For the diluted primer coat mix thoroughly DriSeal® ONYX™ 1:1 with water. Only mix the amount of material that can be applied in the same day.

STOP: Due to the many additives being used in or on concrete slabs, it is critical that the bond test be performed. Some treatments will repel any sealer or adhesive. If usage instructions are not completely followed, DO NOT USE THIS PRODUCT.

TRAFFIC: Protect all surfaces from jobsite traffic. Light foot traffic can be allowed when the surface is tack free to the touch. Installation of flooring material may usually begin 2 hours after the second coat. Times may vary due to substrate condition, temperature, and humidity.

CLEANUP: Immediately clean all tools and equipment with soap and water or a mild solvent such as acetone or isopropyl alcohol. Once cured, this material can only be mechanically removed, which may damage some surfaces.

STORAGE AND SHELF LIFE: Shelf Life: 18 months from date of manufacture in unopened, properly stored container. Avoid excessive heat or cold. Protect from freezing. Store indoors at a temperature of 40°F to 95°F (5°C to 35°C).

SUPPLEMENTAL INFORMATION:

VOC is <15 g/L. Flash Point is >200°F (93°C).

LIMITATIONS:

• For wet set, water-based adhesive installations with resilient or 'non-breathable' floor coverings, apply a blotter coat of a self-leveling underlayment or cementitious patch. Must be installed at a minimum 1/8" layer on top of DriSeal® ONYX™ Ultimate Moisture-Vapor-Barrier Coating according to label instructions. Failure to

apply this cementitious layer will result in the adhesive not drying and remaining wet/uncured.

• If using pressure-sensitive adhesives, a cementitious layer is not required to be placed over the DriSeal® ONYX™ if the products are used properly (according to label instructions) and allowed adequate time to "flash off" prior to the installation of the floor covering. Failure to allow these adhesives to reach their intended high-tack states will result in the adhesives not drying and remaining wet/uncured. A cementitious layer may be necessary for a smooth finish to prevent telegraphing through the surface of certain flooring types.

• Always do a test area to ensure product satisfaction, including adhesion to substrate, and/or to become familiar with proper application techniques prior to use.

• Protect from freezing.

• Not all floor-covering adhesives/installation systems are compatible or designed for use over DriSeal® ONYX™. Use ONLY adhesives/installation systems specifically approved in writing for use over this coating. Please contact XL Brands® Technical Service for questions related to the application of adhesive systems.

• Due to limitations with gypsum-based materials in wet/moist environments, gypsum-based patches/underlayments should not be used under this system.

• Thoroughly clean surface to remove any substance that could interfere with the bond, including dirt, paint, oil, grease, laitance, efflorescence, curing compounds, sealers, and any other surface contaminants that may inhibit proper bond.

• Completely remove cutback adhesive residue, curing compounds, and sealers by mechanical means.

• Do not use in areas subject to hydrostatic head.

• On- or below-grade substrates must have an appropriate vapor barrier (6 mil poly or better) properly installed below slab per ASTM E1745-09 "Standard Specifications for Water Vapor Retarder Used in Contact with Soil or Granular Fill Under Concrete Slabs."

• Use indoors only.

• Protect installed vapor barrier from jobsite traffic.

• This is not a waterproofing or anti-fracture membrane.

• Do not use acid etching to prepare substrate surface.

• Do not thin/dilute product with solvent.

• Do not apply to surfaces with visible/standing moisture.

• Concrete must be a minimum temperature of 40°F (4°C) and a maximum of 90°F (32°C).




• Please refer to flooring manufacturer's recommendations and NWFAs specifications for proper acclimation, verification of moisture content of flooring with a moisture meter, and expansion relief around perimeter throughout installation.

• Do not apply to concrete that is in direct sunlight or is increasing in temperature. Apply as the concrete slab is cooling to reduce outgassing and the appearance of pinholes. Pinholes will compromise the coating and may cause it to fail.

• When working on top of the moisture-vapor barrier, do not wear metal-spike cleats, only rubber cleats.

• DriSeal® ONYX™ is not designed to be used as a penetrant to treat concrete slabs that contain alkali silica reaction (ASR). If this condition is suspected to be present, do not use this product.

TROWELS AND COVERAGE

Use a 3/8" nap roller	Use a 3/8" nap roller	Use a 3/8" nap roller
For applications using 1 coat of DriSeal® ONYX™, coverage will be approximately 200 ft ² per gallon. Required film thickness at 1 coat is 4.1 mil.	For applications using DriSeal® ONYX™ as a primer, or over high-porosity concrete, dilute and mix thoroughly 1:1 with clean water. Coverage will be approximately 500–800 ft ² per gallon of concentrate.	For applications using 2 coats of DriSeal® ONYX™, coverage will be approximately 100 ft ² per gallon. Required film thickness at 2 coats is 8 mil.
 1 Coat	 1 Coat	 2 Coats

To achieve proper coverage and performance of material, lay out the job site in grids, or sections, of the floor equal to the coverage required based upon the application type. Apply material at the required coverage rate by staying within the grid size per unit/container. Ensure that pinholes are not present in the final coating.

SUBSTRATE AND MOISTURE LEVELS

Flooring type	Acceptable moisture level
Sheet vinyl	Up to 95% RH
LVT, VCT, carpet	Up to 99% RH
Rubber flooring	N/A
Hardwood, tile	Unlimited

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DISCLAIMER: Users should determine the suitability of this information or product for their own particular purpose or application. Manufacturer is not responsible for the misuse of this product. This Technical Data sheet and the information conveyed herein supersede all previous versions. A functional working moisture barrier/retarder under the existing slab must be in place to use this product. Substrate surface moisture readings (ASTM F2659) found to be above the 4% acceptable range may void the warranty. Always refer to the Safety Data Sheet (SDS) prior to use for proper handling, cleanup, and spill containment. SDS documents are available 24/7 at www.xlbrands.com.
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