

MOISTURE SHIELD PRIMER

High Solids Moisture Vapor Barrier Epoxy Primer System

Product Description

Moisture Shield Primer is a high performance epoxy primer system designed to reduce water vapor transmission. When applied to properly prepared concrete, Moisture Shield Primer has shown to have improved adhesion to concrete surfaces where moisture is an issue and other high performance coatings have failed.

Benefits & Features

- Superior adhesion for concrete affected by moisture vapor transmission
- Excellent base coat for many epoxies and urethanes
- Performs well where other coatings fail

Recommended Applications

Moisture Shield Primer is designed for a variety of concrete flooring applications. It is an excellent primer for auto service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, exterior tanks and other areas affected by high moisture vapor transmission.

Technical Information

Drying Time	4-10 Hours	Wet Appearance	Clear
Re-Coat Time	8-24 Hours	Dry Appearance	Clear
Foot Traffic	12-24 Hours	VOC Content	<5 g/l
Wheel Traffic	24-48 Hours	Blush Resistance	Good
Application Temp	50°F - 80°F	Solvent Resistance	Good
		Concrete Adhesion	Excellent

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

Specifications/Compliances

Perm rating 0.065 perms @30 mils thickness

Approximate Coverage Rates

New (unsealed) concrete 200-250 ft²

*Coverage rates vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

Shelf Life

Moisture Shield Primer has a shelf life of one year from manufacture date in it's original, sealed, unopened container

Packaging

Moisture Shield Primer is packaged in 1.5 gallon, 3 gallon, 4.5 gallon and 15 gallon kits.

ORRVILLE

133 North Kohler Road
Orrville, Ohio 44667
(330) 682-5678

CLEVELAND

7941 Granger Road
Cleveland, Ohio 44125
(216) 573-0770

COLUMBUS

690 Harrison Drive
Columbus, Ohio 43204
(614) 253-3326

POLY ARMOUR

www.eco-cretesupply.com

Instructions for Use

Surface Preparation: A Fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP-3 to a CSP-5 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4x4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If multiple coats of Moisture Shield Primer are required, apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats. Fill cracks and spalls with Quick Fix.

Substrate and air temperature must be no less than 40°F and not exceed 80°F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150°F which can cause extreme bubbling issues.

Mixing: Mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Mix only full, pre-packaged kits. Do not separate into smaller kits. Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer for a 2 full minutes to ensure the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

Coverage Rate: First Coat: 200-250 ft²

Application: Apply the mixed material by brush or roller with a 1/2" nap—3/4" nap shedless roller cover within the usable pot life time frame, at 200-250 sq. ft. per gallon. A second applicator on spiked shoes should be backrolling the wet material to ensure uniform distribution. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

Please Note: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. When applying, do not exceed 400 sq. ft. per gallon. Apply too thin of a coating may cause inadequate film formation or performance expectations may be limited. DO NOT USE ON BRICK.

Clean-Up

Use Xylene, Acetone or MEK. Dispose of containers in accordance with local and federal regulations.

Product Removal

Dried, cured sealer may be removed with a commercial epoxy stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

Precautions & Limitations

- This product will freeze during storage. Store at temperatures above 40°F.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- This product is NOT intended for use over vegetable oil, animal fat or synthetic oil contaminated concrete.
- This product can withstand exposure to many common solvents and chemicals.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive, such as Deco Grip, can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause sealer to delaminate in a short time frame.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.

Special Notes

Please consult Safety Data Sheet (SDS) and read warranty information prior to use. This information can be requested by contacting customer service at 330-682-5678.

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