



MONOCHEM MOISTURE VAPOR BARRIER

MONOCHEM MOISTURE VAPOR BARRIER is a 100% solids epoxy primer designed for use on interior and exterior concrete floor surfaces with a high moisture content. This high performance primer creates a barrier to stop moisture vapor from traveling through the substrate and negatively impacting the surface coatings. The low viscosity formula promotes deep penetration into the concrete sealing and blocking moisture for a long lasting topcoat application. Monochem Moisture Vapor Barrier also has a low odor that minimizes down time in occupied spaces. Available in a clear, high-gloss that can be topcoated with most high performance floor coating systems.

SPECIFICATIONS:

Composition:	Epoxy
Vehicle:	Solvent
VOC (ASTM D6886):	< 15 g/L
Solids by Weight:	98% ± 2
Shelf Life:	12 Months
Warranty:	Limited

FEATURES:

100% Solids, Low Viscosity
Controls Moisture Vapor < 25lbs
Excellent Concrete Adhesion
High pH Resistant
One Coat Application
Low Odor & VOC

BUILT FOR:

Interior & Exterior
Concrete Floor
Surfaces

BEST ON:

Garage Floors
Driveways
Pool Decks
Manufacturing &
Warehouse
Floors

AVAILABLE PRODUCTS:

MFG Codes:	2125
Finishes:	High Gloss
Tint Capacity:	Do Not Tint
Sizes:	96oz, 3 Gallon
Component Ratio:	2:1 (Part A : Part B)

MEETS VOC REQUIREMENTS:

CAL Green	YES
SCAQMD	YES
CARB	YES
National AIM	YES
Green Seal GS-11	YES
LEED v4 v5	YES

PREPARATION:

All surfaces must be cured, firm and dry. Use suitable cleaners to remove all dirt, efflorescence, oil or other contamination. Sand glossy surfaces and remove dust (See **WARNING!**)

APPLICATION:

Brush:	Synthetic Bristle
Roll:	Non-Shedding Phenolic Core - 3/8"
Squeegee:	Rubber

Temperature:	60°F - 90°F Air, Surface, & Material
Film Thickness:	16 dry mils
Coverage:	~ 100 Sq. Ft. / Gal
Pot Life: @75°F; 50% R.H.	10-15 Minutes Maximum
Drying Time: @75°F; 50% R.H.	3-4 Hours Dry 12-24 Hours Recoat
Thinning:	Do Not Thin
Clean Up:	Solvent (Wet Coating) <i>If coating dries, must mechanically remove.</i>

Primer – 1 Coat:

Monochem Moisture Vapor Barrier

Topcoat – 1-2 Coats:

Monochem Product Latex, Epoxy, Urethane, or Polyaspartic; or similar

An intermediate primer may be required after the Moisture Vapor Barrier and before the topcoat. Refer to the topcoat Technical Data Sheet for full instructions.

Mix:

Bring temperature of all material to between 70°F - 80°F.
Hand stir Part A and Part B separately for 3-5 minutes with a wooden paint stick to ensure uniform consistency.
Intermix Part A and Part B. Stir 3-5 minutes with a wooden paint stick until completely incorporated and no streaking is observed.
Scrape sides and bottom of each can to ensure all material is intermixed.

All Surfaces:

Once mixed, immediately pour all material onto the floor surface. Apply material working in small areas using cross hatch passes. Maintain a wet edge and do not work back into areas that have started to dry.
Apply all material within 15 minutes of mixing.

See following pages for detailed preparation and application instructions.





MONOCHEM MOISTURE VAPOR BARRIER

PREPARATION & APPLICATION:

BEFORE APPLICATION

GENERAL PREPARATION: All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, dense or glazed surfaces (see **WARNING!**). Protect surrounding areas, shrubbery, plants, grass, glass, metal and other glazed surfaces.

CONCRETE: Mechanically grind the surface to create a profile following ICRI CSP 3 per ASTM 4259-83. Ensure the surface has a pH < 13 prior to application. Higher pH may result in discoloration or 'burn' of the coating.

NEW & BARE SURFACES: Prime surfaces following recommendations on page 1.

PREVIOUSLY PAINTED SURFACES: Remove any previous coating prior to application.

MOISTURE: All surfaces should be dry before application. Concrete should be thoroughly cured and have moisture content < 15%. Calcium chloride testing is recommended following ASTM F1869-11.

MIXING: Mix well before use per recommendations on page 1. Properly dispose of all remaining material once mixed. Do not reuse or store mixed material.

THINNING: Apply at can consistency. Do not thin.

CONTAINERS AND TOOLS: Transfer material into a clean container for use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers.

DURING APPLICATION

TESTING: Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Monopole representative for recommendations.

COVERAGE: May vary depending on method of application, porosity and texture of the surface. Measure estimated coverage during the test application.

FILM THICKNESS: Always follow recommendations for application thickness on page 1. Over application may reduce performance and can lead to runs, extended dry times, a soft film, or a white haze (clear coatings). Under application may lead to moisture penetration and topcoat failure.

WEATHER: Apply product only when material, air, and surface temperature are within the recommendations on page 1 and will remain above that temperature for at least 24 hours. Temperatures must remain 5° above the dew point during application and dry time. Do not expose to rain, fog, snow or any moisture during application or dry time. Limit exposure to heavy moisture for 24-48 hours after application.

RECOATING: Always follow recommendations for recoat times on page 1. Recoating too soon or too long after application may reduce performance and can lead to adhesion loss, improper cure or a soft film.

AFTER APPLICATION

DRYING: Dry times are based on standard conditions of 75°F with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed drying time and pot life. Provide adequate ventilation and air movement during and after application.

STORAGE: Store material at 60°F - 90°F in a clean, tightly sealed container free of rollers, brushes, or other outside materials. Protect from freezing.

CURE: Cure times vary depending on environmental conditions and air circulation.

CLEANING: Clean up any excess material while still wet. Once material dries it must be mechanically removed.





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PERFORMANCE TESTS:

Adhesion (ASTM D7234)	>400 psi
Hardness, Konig (ASTM D4366) 15 mils	100
Tensile Elongation (ASTM D2370)	1.5%
Tensile Strength (ASTM D2370)	1,500 psi
Compression (ASTM D695)	10,000 psi
Impact Resistance (ASTM D2794)	160 in/lb

Water Absorption (ASTM D570)	<0.1%
Hardness (ASTM D2240) Shore D	75-85
Flame Test (ASTM D648)	Class 1
Abrasion Resistance (ASTM D4060)	30mg loss
Coefficient of Friction (ASTM D2047)	0.7 Smooth
Permeance (ASTM E96) 16 mils	0.022 (gr/ft ² /hr/inHg)

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

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