

HydroBlok 1100™ MVB Primer

PDS
PRODUCT DATA SHEET

by InduraFloor - GUARANTEED TO BLOCK MOISTURE & VAPORS

HydroBlok 1100™ MVB Primer is an impermeable, two-component, modified epoxy coating that contains ZERO VOC, and is developed to block moisture and vapor emissions from new and existing substrates. Its adhesion to substrates, with tensile adhesion strength exceeding 1,100 psi, is unsurpassed and because it is formulated to be applied directly over a variety of existing substrates there is no need for costly and time-intensive removal, grinding, or shotblasting. For best UV-protection and a complete fine finished look, designed to last, we recommend combining **HydroBlok 1100™ MVB Primer** with our **Polyspartic Topcoat**.

HydroBlok 1100™ MVB Primer was formulated as a solution for commercial, industrial and residential surfaces suffering from moisture related flooring problems. It was developed to block the moisture and vapor emissions from new and existing substrates and does so with an unsurpassed tensile adhesion strength that exceeds 1,100 psi. HydroBlok puts an impermeable seal between you and the moisture and vapors beneath the substrate.

- ⊗ Water below the substrate saturates the porous substrate and exerts continuous upward pressure that can exceed 500 psi.
- ⊗ The industry's leading products have adhesion of 300 to 400 psi, which is insufficient to resist the upward pressure.
- ⊗ Continuous upward pressure causes the moisture barrier to delaminate and ultimately will result in flooding.

Common Moisture-Related Flooring Problems Including "Bubbling", "Blistering", and the Inevitable Failures

Labels in diagram: Finish Flooring (Epoxy / Poly. Finishes), Concrete Slab Substrate, Standard moisture barrier, Slab Graded Fill soil/stone, Water Table / Below Grade. Annotations: Water vapor escaping due to hydrostatic pressure, Water and Moisture Vapor rising to the surface, Standard barriers help to eliminate moisture from the ground, but do nothing to prevent moisture from the concrete, Standard Vapor barriers can help but were not installed in California pre-2000 construction, and not at all in older homes throughout the U.S. Even the barriers installed today are compromised by way of being punctured during common construction activity.

- ✓ HydroBlok 1100™ MVB Primer is an impermeable, extremely tough coating with an exceptional tensile adhesion strength exceeding 1,100 psi.
- ✓ HydroBlok can be applied with only minimal preparation directly to the existing substrate and cures when wet.
- ✓ HydroBlok is designed to last. IT is extremely tough with hydrolytic stability and low permeability. HydroBlok does not delaminate.

Unique Advantages

- Zero VOC, low odor
- Directly apply over existing substrate with minimal preparation
- Cures while wet
- Tack-free and ready for topcoat in less than 2 hours
- Commercial return to service in less than 8 hours

Extraordinary Properties

- High Tensile Adhesion Strength exceeds 1,100 psi
- Designed to last, guaranteed to stick and NOT delaminate
- Extensive inherent chemical resistance
- Extremely tough with hydrolytic stability and low permeability
- Compliant with EU 10/2011 and FDA 21 CFR 175.300

Applications

- Directly over existing concrete slab or other existing substrate that "weeps" moisture or vapors, has leaks or drafts
- As preventative treatment for new substrates to seal against moisture, vapor, leaks or drafts
- In for commercial, industrial and residential settings
- Effective subfloor treatment for uric acid

WORKING PROPERTIES	RESULT	
	TYPICAL PRODUCT	HydroBlok 1100™
MIX RATIO	1:2	1:1
WORKING TIME (POT LIFE)	20 - 30 min	50 - 60 min
RE-COAT TIME (MIN)	12 hrs.	50 min
RE-COAT TIME (MAX)	72 hrs.	24 hrs.
FULL CURE	7 days	3 days

Area Coverage

A 2-gallon kit (1 gallon part A and 1 gallon part B) will cover 600 sq/ft on a flat even surface at 4-6 mils and 350 sq/ft on a coarse, uneven surface at 10-12 mils.

Adhesion Performance and Penetration during Hydrostatic Pressure Testing

Loss of adhesion at 50 lbs. of applied hydrostatic pressure: 0 (zero)
Moisture wicking at 50psi

PHYSICAL PROPERTIES	TEST METHOD	RESULT	
		TYPICAL PRODUCT	HydroBlok 1100™
TENSILE ADHESION STRENGTH	ASTM D4541	>410 psi	>1,100 psi
VAPOR PERMEANCE	ASTM E96	0.052 gr/h/ft ²	0.011 gr/h/ft ²
TENSILE ELONGATION	ASTM D638	2,500 psi	3,200 psi
WATER ABSORPTION	ASTM D570	<0.1%	<0.09%
COMPRESSION STRENGTH	ASTM D695	>10,000 psi	>18,000 psi
FLEXIBILITY 1/4" CYLINDRICAL MANDREL	ASTM D522	PASS	PASS
IMPACT RESISTANCE	ASTM D2794	>160 inch/lbs.	>320 inch/lbs.
SHORE D HARDNESS	ASTM D2240	80	89

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Packaging Shelf Life and Storage

HydroBlok 1100™ MVB Primer is available in the following units:

- ◇ 2-gallon kit (1-gallon part A and 1-gallon part B) in 3-gallon black pail – blue lid.
- ◇ 6-gallon kit (3-gallon part A and 3-gallon part B) in two pails: one 3-gallon black pail with white lid (part A) and one 3-gallon black pail with black lid (part B). Both 3-gallon pails come with pour spout in the lid.

HydroBlok can be stored 2 years unopened under good storage conditions. Store locked up and out of reach of children. Do not store in direct sunlight. Do not expose to freezing temperatures. Store in upright position. Store in accordance with local regulations. Store in original containers in a dry, cool and well-ventilated area between 60°F and 80°F. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright.

Processing Characteristics

Tack free dry time: 2 hours.

Subsequent coat can be applied after 1.5 hours.

Recoat time: 24 hours. After 24 hours, you must perform the following procedure prior to recoating:

Light acetone wetting. Acetone wetting eliminates dust and "opens" the HydroBlok up to allow for maximum adhesion.

HydroBlok 1100™ MVB Primer primary purpose is superior adhesion. Proper application will result in adhesion from 1,100 psi to at least 1,500 psi.

Do not dilute.

Application

For complete application instructions, refer to the Technical Data Sheet and Application Instructions. Read all documents before application. Our product is unique and MUST be handled accordingly. Failure to follow all application instructions completely will void the warranty. Please consult InduraFloor directly for additional information or to discuss specific application questions.

For optimum performance, product must be stored between 60°F and 80°F (15.5°C and 27°C). Surface and ambient temperature for application must be between 60°F and 80°F (15.5°C and 27°C).

Prepare the surface. Dry sweep and remove loose debris. Clean water wipe if needed. Follow with acetone wetting. Mix HydroBlok 1100™ Parts A and B. Thoroughly mix each part individually first. If adding color, add color to part B prior to mixing parts A and B. Mix Part A with Part B on 1:1 basis. Mix thoroughly until both parts are blended. Let rest for at least 15 minutes, before applying. Apply with short nap roller. Film thickness should be 4-6 mils when applied to flat even surface. Working time is 50-60 minutes. Tack free in 90-120 minutes.

Clean up using acetone for all tools and surfaces.

Working Temperature

Optimal application temperatures generally are between 60°F and 80°F (15.5°C and 27°C). This is for both ambient and surface temperatures. Outside this temperature range dry times will become exponentially longer. Applications outside this range, even below 41 °F, are achievable. Consult us for the specific application methods required for extreme temperatures.

Safety and Handling

Do not handle until all safety precautions have been read and understood and until all application instructions have been read and understood. The complete safety and handling instructions are in the Safety Data Sheet and Technical Data Sheet. Wear protective gloves. Wear eye or face protection. Wear protective clothing and wash hands thoroughly after handling. Avoid release of product into the environment.

Disclaimer

This information is presented herein was believed by InduraFloor to be accurate at the time of preparation, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by InduraFloor are subject to InduraFloor's terms and conditions. InduraFloor makes no warranty, express or implied, concerning the product or merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by InduraFloor except that the product shall conform to InduraFloor's specifications. Safety information provided is generated for the purpose of distributing known health, safety and environmental information and is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification.