HydroPhase® APMB

Advanced Primer & Moisture Barrier

Easy Application Prime & Prep Moisture Barrier

AT A GLANCE

- 100% RH, 14pH and 25 lbs MVER
- Use APMB on freshly placed concrete
- Install over APMB in less than 60 mins
- No additional primer required
- No minimum profile required on substrates where 100% of the surface is absorbent
- Zero VOC

DESCRIPTION

HydroPhase® APMB (Advanced Primer and Moisture Barrier) is a unique patented Nanotechnology Reactive Polymer that combines a one-step primer and moisture barrier with superior performance, rapid installation and permanent moisture control.

CHARACTERISTICS

- Use where up to 100% RH
- Use where up to 14 pH
- Use where up to 25 lbs MVER
- Use on freshly placed and existing concrete
- APMB penetrates deeply into substrate
- Dries clear and is both penetrating and micro-film forming
- Quick Drying, ready for use with all HydroPhase® levelers, finished floor covering and many coatings in 60 minutes or less
- Exceeds ASTM F3010-13 requirements for vapor reduction when tested in accordance with ASTM E96, independently tested at less than 0.07 perm when installed as per installation instructions
- Zero VOC Water-based, non-toxic
- Designed for rapid turnaround with maximum protection

SUITABLE SUBSTRATES AND USES

- Use on freshly placed concrete cured for 72 hours and free of surface water
- Existing concrete substrates
- No minimum surface profile required
- Lightweight or structural concrete
- May be used directly under moisture or alkaline sensitive floor coverings
- May be used on all interior porous substrates
- Mechanical preparation is required to remove all contaminates or surfaces that are less than 175 psi tensile pull strength

LIMITATIONS

- Only for use by experienced professionals
- Use only as part of a HydroPhase® system
- Do not install over substrates containing asbestos
- Ambient and concrete surface temperatures must be greater than 40°F
- Optimum installation temperatures are between 45°F and 100°F
- Do not allow product to freeze
- Never use product that has bee subject to freezing or storage below 40°F
- Do not thin product, do not add water
- DO NOT use over nonporous concrete substrates
- Aggressively profiled surfaces and varied substrate porosity levels can decrease coverage yield
- Never apply over surfaces where water may be seen glistening on the surface or where water may be mopped up with a dry rag or paper towel

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APPLICATION GUIDELINES

- Agitate product by hand only to ensure a uniform consistency prior to application. Do not use a powered mixer.
- Concrete sub floors must be clean, porous and structurally sound in accordance with ASTM F710 Standard Practice for Preparing Concrete Floors to receive resilient flooring
- Utilize ASTM F3191-16 Standard Practice for Determination of Substrate Absorption (Porosity) as an additional test procedure to ensure that substrate is clean and porous. Multiple test spots must be performed throughout all areas to receive APMB
- Saturate roller and apply uniformly in a singular direction, once first coat is tacky dry cross roll in opposite direction at rate of 250-300 sf/gallon* utilizing a 3/8" nap roller. (Example: north-south then east-west) immediately follow with soft bristle broom to ensure complete coverage
- For best results dip roller in bucket or roller tray.
- **DO NOT** pour material directly on substrate as this will not provide uniform coverage
- **DO NOT** allow to puddle
- No additional primer is required for self leveling cements or cement based patch

CLEANUP

- Clean tools and equipment with soap and water immediately after use.
- Dispose of all materials in accordance with local, state and federal regulations.

- Always perform a water penetration test to determine whether APMB will be able to penetrate the surface of the concrete
- Perform a small test patch to determine product suitability

SURFACE PREPARATION

- Concrete sub floors must be clean, porous and structurally sound in accordance with ASTM F710 Standard Practice for Preparing Concrete Floors to receive resilient flooring
- All substrates must be structurally sound and free from any contaminants that may inhibit product's ability to properly penetrate and/or bonding of patching/adhesives finished flooring product, including oil, grease, dust, paint, sealer, floor finishes, curing compounds and adhesives
- Weak or contaminated surfaces must be mechanically removed.
- A specific CSP is not required, however thickness of surface removed must be deep enough to eliminate penetrated contaminants
- The type of mechanical cleaning is determined by the type and depth of contaminant(s) to be removed
- Existing cracks in the new and old concrete must be repaired with 100% solids high mod epoxy in accordance with industry recommendations prior to installation of APMB. Note that repair of existing cracks in the concrete subfloor MAY only subdue but not completely prevent their ability to telegraph through
- Growth of existing cracks or formation of new cracks in the concrete subfloor can compromise the performance of APMB
- DO NOT acid etch

SAFETY

- Chemical safety glasses or splash-proof goggles to be worn
- Protective gloves to be worn
- NIOSH/OSHA-approved organic vapor respirator should be used (optional in a well ventilated space)
- Long sleeved shirts and trousers
- Emergency showers and eye wash stations should be readily accessible
- Refer to SDS for specific safety instructions

WARRANTY

The information contained herein is based on laboratory testing and believed to be accurate. Due to an inability to anticipate all variations or possible applications, we cannot guaranty the reliability of the information listed herein. The applicator is responsible to test and determine product suitability for each intended purpose. Formulated Materials warrants the product is free of manufacturing defects and conforms to published product properties.

THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

ASTM REFERENCES

ASTM F3010 - Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings

ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete

ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete

ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials

ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In Situ Probes

CSI DIVISION CLASSIFICATION 09 0561.13

FOR PROFESSIONAL USE ONLY

HydroPhase® APMB is intended for use by trained professionals only as a part of the HydroPhase® system. Warranties do not apply if used with other manufacturer's components except where excluded prior to installation in writing by Formulated Materials LLC.

PHYSICAL PROPERTIES

Physical State	Liquid
Color	Milky White, Clear when dry
Percentage Solids	27%
VOCs	0 g/l
Dry Time	30-60 min per coat
Recommended Ambient Temp	45° - 100°F (7° - 38°C)
Recommended Substrate Temp	Min 40° (6°C)
Packaging	5 Gallon Pail
Total Coverage	1250 sf
Shelf Life	12 Months Unopened
Storage Requirements	50°-90°F (9° - 35°C)