ACC Epoxy Moisture Block

100% Solids Epoxy Moisture Barrier

Product Description -

ACC Epoxy Moisture Block is a two component, 100% solids, low viscosity, moisture accepting epoxy primer. It has an ability to reduce the hydrostatic pressure emitted by the floor from 12 lbs per 1000 square feet to less than 1 lb. This product is designed to reduce and dissipate high moisture vapor transmission readings in existing concrete substrates. The presence of high moisture vapor emissions in concrete substrates adversely affects most conventional floor coverings and coatings. As a general rule, installation of coatings products are not recommended when a substrate MVT readings exceed 3.0lbs of moisture over 1,000 square foot area during a 24 hour time period.

Uses -

ACC Epoxy Moisture Block can be used to prime concrete, metal, and wood. It is an excellent all around concrete primer/sealer with incredible adhesion. Common usage for this material would be used as a primer for substrates that show a high moisture vapor transmission reading. Applying just a single coat can hold up to 10 pounds of MVT, increasing the lifetime integrity of various coating systems. As moisture drive is a huge problem in coating applications, ACC EMB can nulify the risk of failures from present, and future moisture vapor transmission issues.

Advantages -

- Superior Adhesion
- 100% Solids Formulation
- Low Viscosity
- VOC Compliant
- High Build Application
- Moisture Tolerant
- Used With Most ACC System Applications
- Mitigates Moisture Vapor Transmission

Ideal Applications -

- High MVT Reading Substrates
- Coating System Primer
- Wet Area System Primer
- Below Grade Applications

Limitations-

- Do not apply at any temperature below 50˚ F or above 95°F.

- Do not let mixed product sit in bucket for prolonged period of time or it will become very hot and unusable

- Concrete must be cured for a minimum of 14 days and have vapor emissions less than 15 lbs/1000 ft^2/24hr.

- For interior use only unless protected by a pigmented U.V. resistant coating such as ACC 75 or ACC WBU.

- Epoxy must be cured for a minimum of 24 hours before coming in contact with water.

- Concrete should be a minimum of 2500 psi.

Coverage Rates -

Theoretical Square Feet Per Gallon

Mils	5	10	15	20	30
	320	160	120	80	60

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

Mixing-

Mix 2 parts A with 1 part B (by volume) of ACC Epoxy Moisture Block together for 3 to 4 minutes with a slow speed drill mixer. ACC EMB may be thinned with up to 16oz of Acetone to aid in penetration. Thinned material should be applied at less than 6 mils (and not puddle) to cure properly. The ACC Epoxy Moisture Block will have approximately 30 minutes of working independently prior to batch mixing time.

Packaging -

- 1.5 Gallon Kit: .5 gallons of 'A' side and 1 gallon of 'B' side.

- 15 Gallon Kit: 5 gallons of 'A' side and 10 gallons of 'B' side.

Colors -

ACC Epoxy Moisture Barrier is a clear epoxy primer. For pigmented applications, please call for more information.

Surface Inspection-

This product requires a dry substrate. Concrete substrates should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion of coating. Concrete should be cured at least 14 days before applying coating system.

Proper testing procedures should be practiced in regards to alkalinity and moisture vapor transmission. A pH reading should be taken to ensure concrete is neutral, and has a reading between 5 and 9 using a pH paper test. Any testing can only give a snapshot in time of results, meaning future readings may be different. Long term results may vary.

Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for an epoxy flooring installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained.

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the applicator. ADVACOAT bears no responsibility for failures due to any of the above conditions.

Shelf Life -

One year, in original, unopened factory containers, under normal storage conditions of 55˚F to 95˚F.

Clean Up -

Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

Surface Preparation -

Concrete surfaces shall be bead blasted or diamond grinded to remove all surface contaminants and laitance. The concrete should be at least 2500 psi and have an ICRI concrete surface profile within 3-5. After initial preparation has occurred, inspect the concrete for imperfections and treat as necessary. Allow concrete to breathe for a minimum of 24 hours after preparation. Any voids need to be filled using ACC 101 Quick Patch. Any high spots need to be ground smooth.

For surface preparation recommendations consult the Technical Service Department. All expansion joints should be honored. ACC 201 Polyurea Joint Filler may be used to fill expansion joints if desired. Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion.

Technical Services -

Sales and Customer Support 1-877-830-2628, or contact your local sales representative or distributor. Visit www.Advacoat.com for any relative information on products.

Application -

As a primer: Immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a trowel or squeegee and back roll using a 3/8" nap non-shedding roller.

ACC Epoxy Moisture Block can be applied as an intermediate coat for extra protection from moisture vapor emissions: Mix and apply without solvent at the desired thickness using a notched trowel or squeegee and backroll using a 3/8" nap non-shedding roller.

Maintenance -

ACC 75 Aliphatic Polyaspartic can be over coated with a floor finish product as a sacrificial maintenance coat. This is highly recommended to extend the coating life expectancy in high foot traffic commercial settings, but not including industrial environments or areas that will receive any vehicle traffic. ACC 75 may be re coated at any time as long as proper surface preparation guidelines are followed. Applying a new clear coat of ACC 75 over coating systems, will typically bring the coating 'back to life'. Sanding pigmented coating systems and re coating with ACC 75 will typically 're-color' the coating without any variations in color.

Warranty - ADVACOAT will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

Physical Properties -

Cured Film Properties	Test Method	Typical Value
Pencil Hardness	-	2 H
Elongation	-	-
Tensile Strength, psi	-	-
Cross Cut Adhesion	-	5A
Impact Resistance (D/R) LB	-	42/0
Gloss, 60 Spec	-	-
Gel Time (77˚F)		45 Minutes
Tack Free		6 Hour
Walk On		6-8 Hours
Return to Use		16-24 Hours

ACC Epoxy Moisture Block should not be used as a top coating material.

Chemical Resistance -

ASTM D3912 - Modified 21 day immersion exposure

The information in this chart is intended only as a guide. This information has been compiled from various sources believed to be reliable. To verify compatibility or suitability of this product in specific applications, the product should be tested under the specific service conditions. The ratings are for resistance at 77˚ F unless otherwise noted. Recommended Conditional means there will be some effect: swelling, discoloration, cracking. Wash down within one hour of spillage to avoid effects.

R = Recommended

RC = Recommended/Conditional

NR = Not Recommended

Test Media:	Result:	Test Media:	Result:
Acetic Acid, 100%	-	Motor Oil	-
Acetone	-	MTBE	-
Ammonium Hydroxide, 20%	-	MTBE (5%)/gasoline	-
Antifreeze/Water	-	Muriatic Acid (10% HCL)	-
Brake Fluid (DOT 3)	-	NaCl (10%)/water	-
Clorox 10%/water	-	Phosphoric Acid (10%)	-
Diesel Fuel	-	Potassium Hydroxide (10%)	-
Gasoline	-	Skydrol	-
Hydrochloric Acid (10%)	-	Sodium Hydroxide (50%)	-
Hydrofluoric Acid (10%)	-	Sodium Bicarbonate	-
Hydraulic Fluid	-	Sugar/Water	-
Isopropyl Alcohol	-	Sulfuric Acid (10%)	-
Lactic Acid	-	Sulfuric Acid (50%)	-
MEK	-	Toluene	-
Methanol	-	Vinegar (5%)/water	-
		Water (180o F)	-