

CONCURE MVE² VAPOR BARRIER PLUS

Technical Data Sheet

DESCRIPTION

MVE² Vapor Barrier Plus is a water based, pre-mixed liquid designed to penetrate deep into the concrete slab. MVE² Vapor Barrier Plus is designed to stop hydrostatic pressure and reduce vapor permeability to protect surface applied coatings and adhesives from the effects of capillary moisture and vapor pressure. The organic and inorganic composition of MVE² Vapor Barrier Plus penetrates to become an integral part of the concrete slab leaving no surface film or residue. MVE² Vapor Barrier Plus permanently forms an internal capillary break preventing positive, negative and horizontal moisture intrusion. MVE² Vapor Barrier Plus also forms an internal membrane film further sealing the capillary system from moisture migration and water vapor emissions to provide maximum protection. MVE2 Vapor Barrier Plus is a white, low viscosity liquid that requires no special handling or equipment.

ADVANTAGES

- Low Odor/Solvent Free/VOC Compliant
- Fast Drying
- Deep Penetration
- Improved Bonding
- Fast Installation of Floor Covering
- Water Clean up
- Can be used above and below grade concrete
- Stops concrete from dusting
- Controls High PH
- Improves Surface Strength
- Can take foot traffic once dry
- Same Day

APPLICATIONS

MVE² Vapor Barrier Plus is applied to fresh/ green or existing concrete for waterproofing, vapor emission reduction, sealing and weatherproofing substrates. MVE² Vapor Barrier Plus protects floor coverings such as resilient, epoxy, carpet, rubber tile, wood, laminate, cement toppings and other sheet materials from disbonding failure due to concrete slab moisture.

TECHNICAL

Appearance: Milky white to off-white

Odor: Slight Characteristic Flammability: Non-Flammable

Viscosity: 200 cps VOC: 5 grams/L

<u>Weight Per Gallon:</u> 8 pounds 15 ounces <u>Tensile Strength:</u> 435 psi Control block ASTM D7234: 490 psi @300 sq.ft. block

Permeability: 9.4# Control

ASTM F1869: 2.3# @300 sq.ft./gallon Absorption: 11.3% Control mortar ASTM C413B: 4.2%@300 sq.ft./gallon

Re-Coat Time: 20 to 30 Minutes

Minimum Dry Time: 36 Hours for Mat Test

Foot Traffic: Approximately 6 hours

MVER Reduction: CaCI2

1 COAT: 11.9# to 1.51# in 1 day **2 COATS**: 17.91# to 2.49# in 2 days

ASTM:	METHOD:	RESULTS:
F1869	Calcium Chloride @ 300 sq.ft/gal	2.3 pounds/ 1000 ft ² /24 hrs.
C413B	Absorption	4.2 Percent @ 300 sq.ft./gallon
D7234	Coatings Adhesion to Concrete	490 psi @300 sq.ft.
E96	Vapor Permeability	1.41 Perms

LIMITATIONS

Do not allow MVE² Vapor Barrier Plus to freeze in shipment or storage. Do not apply MVE² Vapor Barrier Plus if air or substrate temperature is below 50°F or above 95°F. Applications must be protected if rain or freezing temperatures are expected within 24 hours after application. Concrete substrate must be clean, sound and free of all foreign matter. Green concrete must be properly finished as instructed. Aged concrete must be properly prepared. Do not apply to concrete with standing water on the surface. Do not allow water to pool on the application for the first 24 hours.



CONCURE MVE² VAPOR BARRIER PLUS

Technical Data Sheet

PREPARATIONS

Aged Concrete must be shot blasted using a 330 shot. Curing agents or any other foreign matter must be removed. Sand or small aggregates must be visible (ICRI surface profile CSP 3 – 5). Grinding with a diamond grinder can be used. Diamond blades should be #20 diamonds. Thoroughly vacuum surface after preparation.

CRACKS AND JOINTS

All cracks, joints and saw cuts must be opened with a crack chaser, debris scraped out and vacuum cleaned. Then apply Concure's CFB (Crack Fill Binder). All cracks, sawcuts, cold & construction joints must be filled completely (bottom to top).

EXPANSION JOINTS

See architect or general contractor for design and instruction.

MIXING AND APPLICATION

Mix MVE² Vapor Barrier Plus with a 250 to 400 RPM drill and mixing paddle before using. Do not add anything to thin or entrain air during mixing. A two coat concrete surface application of MVE² Vapor Barrier Plus is recommended using a low pressure sprayer.

FRESH/GREEN CONCRETE

MVE² Vapor Barrier Plus is applied to Green Concrete as soon as the concrete can be walked upon without damage and surface water is not visible. Approximately 6 to 12 hours in typical conditions. Initial application rate is 300 to 400 square feet per gallon. Do not pond MVE² Vapor Barrier Plus or oversaturate the fresh concrete surface. After sweeping or vacuuming the concrete surface, a second MVE² Vapor Barrier Plus application is applied at 300 to 400 square feet per gallon after 7 days for optimum performance. Constantly broom any puddles until MVE² Vapor Barrier Plus is absorbed into the slab.

AGED CONCRETE

A two coat MVE² Vapor Barrier Plus application is recommended to properly prepared Aged Concrete. The initial application rate is approximately 300 square feet per gallon. Absorption rates vary depending on the porosity of the concrete. Evenly distribute MVE² Vapor Barrier Plus with a broom to remove excess material and puddles. The first application should be damp and absorbed in 20 to 30 minutes. After the first coat has been absorbed, but not dry, a second application is applied at a rate of 300 to 400 square feet per gallon. Constantly broom any puddles of MVE² Vapor Barrier Plus

SUBSEQUENT TESTING

Aged concrete applications of MVE² Vapor Barrier Plus must dry at least 36 hours after application before mat testing. Cool, damp, high humidity conditions may extend time before initiating moisture testing. Fresh / Green concrete applications of MVE² Vapor Barrier Plus must dry at least 36 hours after the second application (7 Days) before mat testing. Cool, damp, high humidity conditions may extend time before initiating moisture testing. Test area must be acclimated to conditions intended for installation and use at least 24 hours prior to conducting ASTM F710-11, Section X2.3 Mat Testing for moisture.

Ensure the mat testing remains in place and undisturbed for 72 hours for proper evaluation. ASTM F1869 Calcium Chloride testing and ASTM F2659 Electronic Moisture Meter testing are found to be inaccurate at this stage.

TECHNICAL SERVICES AND WARRANTY

Technical information may be obtained by calling your local Concure representative or by calling the technical department of Concure Systems @ 480-826-0555 OR Email: admin@concuresystems.com

Extended Warranties are available. Written extended warranties are available on a per job basis up to LIFETIME.