



# DRYTEK®

INNOVATIVE FLOORING SOLUTIONS

## MVB Moisture Vapor Barrier

DS-053.0-0613



### 1. PRODUCT NAME

DRYTEK® MVB Moisture Vapor Barrier

### 2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 USA

Telephone: +1.877.DRYTEK1, ext. 247 or;

+1.877. 379.8351, ext. 247

Fax: +1.203.393.1684

Internet: [www.drytek.com](http://www.drytek.com)

### 3. PRODUCT DESCRIPTION

DRYTEK MVB is a unique 3-part epoxy and filler matrix for reducing the passage of water vapor through concrete slabs. Chemically enhanced epoxy and filler allows for easy roller applied installation and increased surface bond area for installation of most floor covering systems. Eliminates adhesive delamination.

#### Uses

- Used over concrete substrates to reduce moisture vapor emissions rate (MVER) to below 3lbs/1000 ft<sup>2</sup>/24hr where moisture sensitive flooring will be installed. (consult flooring/adhesive manufacturer for moisture requirements)
- Ideal for slab-on-grade construction.
- Allows for the installation of vinyl, wood, epoxy, ceramic tile, stone and other floor coverings. Can be used under DRYTEK Self-Leveling products when primed with DRYTEK Multi-Purpose Primer.

#### Advantages

- Easy to use- rolls on like paint
- Cures in 24 hours
- Can be applied over green concrete (min. 7 days old)

#### Suitable Substrates

- Concrete slabs (Interior use only)

#### Packaging

- 3-1/2 gallon (13.2 l) bucket (used for mixing)
- 2 part A @ 2.0 lb (0.9 kg)
- 1 part B @ 2.6 lb (1.2 kg)
- 7 lb (3.2 kg) part C powder
- 13.6 lb (6.2 kg) per unit
- 48 units per pallet

#### Approximate Coverage

Yield/Coverage may vary slightly depending on the mixing equipment, temperature, field conditions and Concrete Surface Profile (CSP)

Each full unit will yield approximately 180–220 ft<sup>2</sup> (16.7–20.4 m<sup>2</sup>) per unit.

#### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >32°F (0°C) and <110°F (43°C).

#### Limitations

- Interior use only
- DRYTEK MVB Moisture Vapor Barrier is not a waterproofing membrane and is not intended to stop liquid water intrusion.
- Not for use over any other substrate besides concrete slabs Cured for a minimum of 7 days at 70°F (21°C)
- Do not allow to freeze.
- DRYTEK is not responsible for moisture emissions from expansion and isolation joints, existing cracks, or new cracks that may develop after the system has been installed.
- DRYTEK self-leveling, skim coat and patch products should not be installed over any moving joints or structural cracks (cracks greater than 1/16" {1.5 mm} in width or any crack that experiences any vertical displacement). All existing expansion joints, cold joints and control joints must be brought up through the DRYTEK MVB Moisture Vapor Barrier and the finish. Failure to honor movement joints will result in cracking and/or loss of bond.

*Note: Surfaces must be structurally sound, stable and rigid enough to support vinyl, wood, epoxy, ceramic tile, stone and other floor coverings.*

## Cautions

- Conduct all moisture tests as required by underlayment, finish flooring and/or adhesive manufacturer prior to flooring installation.
- Consult with underlayment, finish flooring and/or adhesive manufacturer for compatibility with DRYTEK® MVB Moisture Vapor Barrier.
- Most adhesives manufacturers require a 1/8 inch cement underlayment/buffer over moisture mitigation system prior to installation of flooring.
- Protect finished work from traffic until fully cured.
- Keep out of reach of children.

## 4. TECHNICAL DATA

Specifications are subject to change without notification. Technical data shown in DRYTEK product data sheets and technical data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors.

Test	Method	Results
Shear Bond to Concrete 28 Days	ANSI A118.10 5.5	285–570* psi (2.0–3.9 MPa)
Bond to Concrete 28 Days	ISO13007-2 4.4.4.2	260-280 psi (1.8-1.9 MPa)
Permeability	ASTM E96	0.18 lb/1000 ft <sup>2</sup> /24 hr.
Alkalinity Resistance	ASTM C267	Pass, No Degradation

## Working Properties

Time to Recoat	24 hours
Time to heavy traffic	24 hours
Pot life	60 min

## 5. INSTALLATION

### Surface Preparation

Concrete slabs must be clean, structurally sound, and absorptive and have an ICRI concrete surface profile (CSP) of 3 - 5. All dirt, oil, paint, laitance, efflorescence, sealers, curing compounds and any other bond breaking contaminants must be removed down to the full depth of contamination by shot blasting or other mechanical means to a CSP of 3-5 then vacuumed clean. Use of chemicals to remove contaminants is prohibited. Use of sweeping compound is not recommended as they may contain oil which will act as a bond breaker. Fill or repair holes and Dormant, non-moving joints / cracks with DRYTEK Premium Skimcoat or DRYTEK 8400. Do not use gypsum or asphalt based products.

Test moisture conditions per underlayment, flooring and/or adhesive manufacturers requirements prior to installing DRYTEK MVB. Newly placed concrete 7-28 days old requires two coats or 16 mil thickness. For areas that measure Relative Humidity (RH) <85% per ASTM F2170 and/or MVER <10 lbs. /1,000 ft<sup>2</sup>/24 hours per ASTM F1869, apply or 10 mils thickness of DRYTEK MVB Moisture Vapor Barrier. Areas that measure RH 85-90% and/or 10 - 15 lbs./1,000 ft<sup>2</sup>/24 hours apply 12 mils thickness of DRYTEK MVB Moisture Vapor Barrier. Areas that measure RH 90-100% and/or 15-25 lbs./1,000 ft<sup>2</sup>/24 hours apply 16 mils thickness of DRYTEK MVB Moisture Vapor Barrier.

Allow to dry 24 hours between coats and/or prior to installing finish flooring

Surface temperature must be 50 – 90°F (10 – 32°C) during application and for 24 hours after installation.

Dampen hot, dry surfaces and sweep off excess water – installation may be made on a damp surface with NO standing water.

Before using, store resins at room temperature 70°F (21°C) for 24 hours to ensure ease of mixing.

- Movement Joints — honor all expansion and isolation joints up through the DRYTEK MVB Moisture Vapor Barrier, underlayment and finish flooring.
- Saw Cuts, Control Joints and Dormant Cracks — Clean all non-structural cracks and joints of all loose debris and elements. To fill dormant, non-structural cracks up to 1/16" (1.5 mm) in width, the epoxy material shall be DRYTEK MVB Moisture Vapor Barrier. To fill dormant, non-structural cracks up to 1/4" (6 mm) in width, the cementitious material shall be DRYTEK Premium Skimcoat Patch Underlayment or DRYTEK 8400. The filling of dormant cracks, as described above, is recommended to prevent moisture emissions through these cracks. Once the cracks or joints are filled, allow these areas to cure for a minimum of 24 hours at 70°F (21°C) prior to proceeding with the installation of the DRYTEK MVB Moisture Vapor Barrier over the entire surface.

## Mixing

- Mix all units of Part A and Part B until thoroughly mixed, uniform in color by using mechanical mixer. Add all powder (Part C) and mix until uniformly dispersed into the liquid. Make sure to dispense all liquids from the pouches to assure correct coverage.

## Application

- Apply DRYTEK MVB Moisture Vapor Barrier to the substrate using a 3/8" (9 mm) nap roller. Apply an even coat making sure to cover all areas thoroughly, allow to cure for 24 hours at 70°F (21°C) prior to installation of underlayment, or finish flooring.
- Always consult flooring and adhesive manufacturer's installation instructions, restrictions and confirm compatibility with Drytek MVB. Always test performance and compatibility of floor systems prior to application.
- If waterproofing and/or crack suppression is required, it will be necessary to pour the self-leveling underlayment (e.g. DRYTEK 7200) first, allow to dry sufficiently and then install the waterproofing/crack suppression membrane (e.g. HYDRO BAN® or 9235 Waterproofing Membrane).

## 6. AVAILABILITY AND COST

### Availability

LATICRETE® and DRYTEK materials are available worldwide.

### For Distributor information:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For online Distributor information, visit DRYTEK at [www.drytek.com](http://www.drytek.com).

### Cost

Contact a DRYTEK Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM

DS 230.16: DRYTEK® 3 Year Product Warranty

## 8. MAINTENANCE

Non-finish LATICRETE® and LATAPOXY® installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the DRYTEK Technical Service

Hotline:

Telephone: +1.877.DRYTEK1, ext. 247 or;  
+1.877. 379.8351, ext. 247

Fax: +1.203.393.1684

### Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [www.drytek.com](http://www.drytek.com)

## 10. FILING SYSTEM

Additional product information available upon request:

DS 230.16: DRYTEK 3 Year Product Warranty

DDS 041.0: DRYTEK 7200

DDS 044.0: DRYTEK 8400

DDS 046.0: DRYTEK Premium Skimcoat Patch  
Underlayment

DDS 047.0: DRYTEK Multi-Purpose Primer

LDS 236.0: 9235 Waterproofing Membrane

LDS 6200.1: LATASIL™

LDS 663.0: HYDRO BAN®