



VAPOR BAN Primer W

DS-36650-0825

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

VAPOR BAN Primer W

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

VAPOR BAN Primer W is a dual-coat, re-usable, liquid applied 1-part membrane specifically designed for controlling the moisture vapor emission rate from new or existing concrete slabs up to 100% RH. VAPOR BAN Primer W will perform as a primer prior to installing NXT® Level and SUPERCAP® self-leveling underlayments. Combining two steps into one. Saving on material cost.

Uses

- Ensures protection of moisture/pH sensitive floor coverings
- Ideal for slab-on-grade construction
- Ideal for elevated slabs
- Use on concrete up to 100% RH / 14 pH

Advantages

- All-in-one vapor barrier and primer saves time, labor and cost by eliminating a separate priming step

- Rated for 100% RH (ASTM F2170) and reduces MVER from ≤ 25 lbs to below 3 lbs/1,000 ft²/24 hrs ($170 \mu\text{g}/(\text{s}\cdot\text{m}^2)$), providing high-performance moisture vapor control to help prevent flooring failures
- High bond strength enables a solid substrate for final flooring including SLU at any thickness
- Water-based, epoxy-free formula is hypoallergenic and safer for installers sensitive to resins, helping reduce skin and respiratory reactions
- Low VOC, low odor, and non-flammable for safer indoor air quality and jobsite safety
- Ready-to-use formula with no mixing required for quick, easy application
- Resealable packaging allows reuse and helps minimize waste, time, and mess
- Color change on drying provides a visual for proper application and cure timing

Suitable Substrates

- Concrete (Interior Only)
- Oriented Strand Board (OSB) (Interior Only)
- Exterior Glue Plywood (Interior Only)

Packaging

Part #: 0915-0005-2

- 5 Gal. (18.9 L) packaged in a plastic pail
- 36 pails on a pallet

Approximate Coverage

VAPOR BAN Primer W must be applied in with 2 coats:

- A base coat and then a secondary are required
- Each application will take 1 to 2 hours to cure depending on environmental conditions
- In order to help insure coverage, periodically check mil thickness using an NXT Wet Film Thickness Gauge

Application	Wet film mil	Average Coverage** (for both coats)
1st coat	8 to 10	88 - 100 ft ² (8.2 - 9.3 m ²)
2nd coat	8 to 10	Per Gal.

Note:

- **Coverage is approximate and will vary depending on CSP (concrete surface profile), mil thickness, absorption, and other field conditions
- There shall be no visible water or condensation on the surface

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground in a dry area.

Limitations

- Interior use only.
- All existing expansion joints, cold joints must be brought up through the VAPOR BAN™ Primer W and the finish. Failure to honor movement joints will result in cracking and/or loss of bond.
- Cured concrete for a minimum of 5 days at 70°F (21°C).
- LATICRETE is not responsible for moisture emission from expansion and isolation joints, existing cracks, or new cracks that may develop in the concrete slab after the system has been installed.
- Coverage is approximate and will vary depending on CSP (concrete surface profile), mil thickness, absorption, and other field conditions.
- Avoid walking on top of the material when it is applied and curing.
- Not for use as a waterproofing membrane and is not intended to stop liquid water intrusion through or into the slab.
- LATICRETE is not responsible for any aesthetic issues or pinholes that arise from concrete off-gassing.
- Aesthetic color & shade variation in the cured product should be expected.
- Can not be applied over of Skim Lite.
- Not to be used as a primer for overlays.

Cautions

- Consult SDS for safety information.
- Check www.laticrete.com for any technical bulletins or updated information about the product and its application.
- Contact your local LATICRETE Technical Sales Representative with any questions.
- Protect finished work from traffic until fully cured.
- Do not take internally.
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

96 g/L (as intended for use)

Applicable Standard

N/A

Physical Properties

Test	Test Method	Results
Vapor Permeance	ASTM E96	0.078 grains/h/ft ² /in.Hgb (5.4 ng/h•m ² •Pa)
Pull off Adhesion Strength Underlayment from Primer W	ASTM D7234	270 psi (1.86 MPa) Average
Alkalinity Resistance	ASTM D1308	Pass (resist up to 14 pH)

Total Wet film*	Total Dry film*	Moisture Levels
16 to 20	8 to 10	RH 100%, per ASTM F2170

Note:

- * Wet and Dry film is measured in mils
- Application is done in 2 coats

Working Properties

Property Name	Property Value
Working Time	25 minutes per coat
Time for Foot Traffic	1 to 2 hours per coat

Chemical Resistance

N/A

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

Surface Preparation

VAPOR BAN Primer W™ must be installed on concrete slabs that are clean, structurally sound, and absorptive.

- Tensile strength of the concrete slab must be at least 200 psi, tested in accordance with ASTM C1583.
- All dirt, oil, paint, laitance, efflorescence, sealers, curing compounds, dust, construction debris, and any other bond breaking contaminants must be removed by diamond grinding or shot blasting to an ICRI concrete surface profile (CSP) of 1 - 3 then swept and thoroughly 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.
- Water drop test is recommended to determine if concrete is absorptive prior to application. Refer to TDS230 SUBSTRATE PREPARATION AND PRIMER GUIDE for water drop test instruction. If the water drop test yields a non-suction/non-absorptive result the surface must be prepared by diamond grinding or shot

blasting to an ICRI concrete surface profile (CSP) of 1 - 3.

- Surface temperature must be 50 - 90°F (10 - 32°C) during application and for 24 hours after installation. In all cases, the surface temperature of the prepared concrete slab must be warm enough to avoid condensation on the surface of the concrete.

Joints, Cracks, Surface Depressions and Other Irregularities

All joints and cracks should be evaluated and repaired if necessary prior to installation of VAPOR BAN Primer W. A good crack repair technique depends on knowing the causes and selecting appropriate repair procedures that take these causes into account. Repairing a crack without addressing the cause may only be a temporary fix.

Successful long-term repair procedures must address the causes of the cracks as well as the cracks themselves. Refer to ACI 224.1R-07 for guidance on evaluation and repair of cracks in concrete. LATICRETE product application over moving cracks and joints is not recommended.

1. Moving joints (e.g. expansion joints, isolation joints, etc.) and dynamic (moving) cracks must be honored up through the VAPOR BAN Primer W.

2. All non-moving joints and dormant cracks (e.g. saw cuts, surface cracks, grooves, control joints, etc.) must be cleaned out and free of all loose debris.

- Nonstructural cracks up to 1/8" (3 mm) in width can be filled with VAPOR BAN Primer W during main application. Inspect these areas to ensure cracks are completely filled with no voids.
- Non-moving joints, dormant cracks greater than 1/8" (3 mm) wide, can be patched/repared with NXT Patch, L&M™ DURACRETE™ or LATICRETE® FAST FIX™
- Surface crazing and hairline cracks do not need filling. Construction Joints, Expansion Joints and Large moving cracks that have lost aggregate lock (one side of crack is higher than the other) have structural implications and cannot be repaired using this method.

Note: Wider crack repair (over 1/8") applications of VAPOR BAN Primer W will cure slower.

Moisture Evaluation

Moisture testing must be conducted in accordance with finish floor goods and adhesive manufacturers' requirements. If testing of concrete moisture must be performed by the requirements of the flooring system, use either "Anhydrous Calcium Chloride" testing per ASTM F1869, or "In Situ Relative Humidity" testing per ASTM F2170. If water vapor transmission rate is above 25 pounds per 1,000 square feet per 24 hours following ASTM F1869. For RH information, please refer to ASTM

F2170. Please contact Technical Services for any questions.

Mixing

Before using, store resins at room temperature 65-85°F (18-30°C) for 24 hours to ensure ease of mixing. Mix with a slow speed drill (<300 RPM) with a jiffy blade for 2 minutes, assuring mixture is fully uniform.

Application

1st coat:

- 8 to 10 mil application[^]
- Pour ribbons of VAPOR BAN Primer W onto the prepared concrete.
- Immediately following, while the membrane is still wet, use a high quality 3/8" (9 mm) nap non-shedding paint roller to back-roll. Then at 90 degrees from the original direction to help ensure full coverage and uniform thickness.
- Apply an even coat making sure to cover all areas thoroughly.
- A well saturated 3/8" (9 mm) nap non-shedding paint roller should yield roughly a 8 to 10 mil thickness[^].
- Use a paint brush to apply VAPOR BAN Primer W around penetrations, columns, and any other obstructions.
- Periodically check mil thickness using a wet film thickness gauge. Allow to cure 1 to 2 hours until dry prior to applying 2nd coat. Color will change once dry, from a light grey color to tan/biege.

2nd coat:

- 8 to 10 mil application
- Pour ribbons of VAPOR BAN Primer W onto the previous application.
- Make sure to fill in any pin holes or small voids.
- Allow to cure for 1 to 2 hours, prior to installation of underlayment or finish flooring. Color will change once dry, from a light grey color to tan/biege.

Note:

- [^] to be confirmed by using wet film thickness gauge. You can spread using appropriate round or square notch squeegee/trowel that is designed to apply the desired mil thickness. Replace worn squeegee blades and paint rollers when necessary to help ensure proper application.

Flooring and NXT® Level or SUPERCAP® Self Leveling Underlayments Installation

In all cases the VAPOR BAN™ Primer W surface must be protected from traffic, dust, debris, rain, and any other contaminants. NXT® or SUPERCAP® self-leveling underlayments shall be installed over VAPOR BAN Primer W as soon as the membrane is dry to the touch with no transfer. Color shift will happen once dry. From a light grey color to tan/biege.

The maximum time to install finished floor goods or self-leveling underlayments over VAPOR BAN Primer W is

24 hours provided that the surface is protected from traffic, dust, debris, water and any other contaminants. If VAPOR BAN Primer W is not protected and becomes contaminated, contact a LATICRETE Technical Sales Representative. If the 24 hour open window has past, VAPOR BAN Primer W can be re-applied.

Tile Installation

LATICRETE HYDROBAN® and FRACTURE BAN® SC can be applied over VAPOR BAN Primer W for use as a crack isolation membrane under tile and stone installations. Do not apply HYDROBAN or FRACTURE BAN SC under self-leveling products (self-leveling underlayments, etc.).

Always refer to finished floor manufacturer's recommendations regarding installation instructions, restrictions, moisture conditions and compatibility. Tile or stone can be installed using LATAPOXY® 300 Adhesive, 254 Platinum, 254 Platinum Plus, MULTIMAX Lite™ and TRI-LITE™. These shall be installed over VAPOR BAN Primer W as soon as the membrane is dry to the touch with no transfer.

The maximum time to install finished floor goods or self-leveling underlayments over VAPOR BAN Primer W is 24 hours provided that the surface is protected from traffic, dust, debris, water and any other contaminants. Always test performance suitability and compatibility of finished floor systems prior to their application. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use.

6. AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

- 1 Year Product Warranty (US) (English)
- 5 Year System Warranty (US) (English)
- 10 Year System Warranty (US) (English)
- 25 Year System Warranty (US) (English)

- 5 Year Concrete & Surface Preparation System Warranty (US) (English)
- 10 Year Concrete & Surface Preparation System Warranty (US) (English)

8. MAINTENANCE

Non-finish LATICRETE and NXT 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 LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- DS 230.05: 5 Year System Warranty
- DS230.10 - 10 Year System Warranty
- DS025.0 - 25 Year System Warranty
- DS 230.05CR: 5 Year Concrete Remediation System Warranty
- DS230.10CR 10 Year Concrete Surface Preparation System Warranty
- TDS 230: Substrate Preparation and Primer Guide for LATICRETE Self-Leveling Products

Patent Pending

LATICRETE International, Inc.

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