



Air & Water Barrier

DS-661.0-0512



1. PRODUCT NAME

LATICRETE® Air & Water Barrier

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

LATICRETE Air & Water Barrier is single component, load bearing, vapor permeable, fluid applied, waterproofing, crack isolation, air barrier membrane. LATICRETE Air & Water Barrier produces a seamless, monolithic elastomeric coating and bonds directly to a wide variety of substrates. LATICRETE Air & Water Barrier is a low VOC, self-curing, water – based formula containing antimicrobial technology used in construction where vapor permeable air & water barriers are required to improve building efficiencies & durability.

Uses

- Designed for use as an air and water barrier behind exterior wall claddings.
- Performs as a component of air barrier assembly when used with other wall components within the building envelope.
- Bridges up to 1/4" (6mm) gaps on sheathing board joints with LATICRETE Waterproofing/Anti-Fracture Fabric.
- Creates a water barrier coating for applications to glass mat gypsum exterior sheathing panels, exterior glue plywood, OSB, and, cement board sheathing and other approved substrates.
- Consult LATICRETE Technical Services Department for further options.

Advantages

- May install adhered veneers directly to membrane using LATICRETE MVIS Polymer Fortified Masonry Veneer Mortars over concrete, brick, cement plaster and cement backer board.
- Excellent bond strength
- Improved energy efficiencies and indoor air quality
- Contains Microban® antimicrobial product protection.
- Rapid drying
- Lighter color for ease of inspection.
- Safe—no solvents and non-flammable.

Suitable Substrates

- Concrete & Brick Masonry †
 - Cement Plaster †
 - Oriented Strand Board (OSB) *
 - Exterior Glue Plywood *
 - Cement Backer Board * †
 - Glass Mat Gypsum Exterior Sheathing Panels *
- †Suitable as a load bearing substrate for installation of direct adhered masonry veneers.

*Consult panel manufacturer for specific installation recommendations and to verify acceptability for intended use.

Packaging

Commercial Unit

5 gal (18.9 ℓ) pail liquid (36 commercial units/pallet)

Approximate Coverage

Commercial Unit: 250 ft² (23.2 m²)

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

- Do not install over structural cracks, cracks with vertical movement or cracks with >1/8" (3 mm) horizontal movement.
- Do not use as a primary roofing membrane over occupied space.
- Do not use as a vapor barrier. Design professional / specifier to detail and specify vapor barrier layer material type and location within the installation assembly and in accord with local building codes.
- Do not expose to negative hydrostatic pressure, rubber solvents or ketones.

- Do not expose membrane directly to sun or weather for more than 30 days.
- Do not use below grade.
- LATICRETE Air & Water Barrier is a secondary weather barrier. The outer façade finish is the primary weather barrier and must be installed and maintained per manufacturer's guidelines in order to ensure the proper performance of LATICRETE Air & Water Barrier.
- Do not install if surface or air temperature is below 50°F (10°C) or above 90°F(32°C).

Cautions

Consult MSDS for more safety information.

- Not for use as a vapor barrier.
- Wet coat thickness is 0.015 to 0.022" (0.4 to 0.6 mm) per coat. Use a wet film thickness gauge to check thickness.
- The LATICRETE Air & Water Barrier will go from a light sage green to a darker olive green when fully cured. The second coat should not be applied until the first coat is fully cured.
- Review local building codes and obtain any required approvals before using LATICRETE Air & Water Barrier. Placement of LATICRETE Air & Water Barrier in a wall assembly to be determined by project design professional.
- Allow wet mortars/plasters to cure for a minimum of 72 hours at 70°F (21°C) / 50% R.H. prior to installing LATICRETE Air & Water Barrier.
- Mechanical anchors, brick ties, furring strips, finish cladding supports or other penetrations through LATICRETE Air & Water Barrier should be sealed and made air and water tight.
- For all finishes: The successful performance and installation of exterior finishes is dependent upon the proper design and construction of the finish, adjacent building materials and systems of the assembly. Follow all applicable industry guidelines and building codes for the respective utilized finish.
- When LATICRETE® Air & Water Barrier is installed in conjunction with other building materials; it must be properly integrated so that water is diverted to the exterior of the wall system.
- Use of certain additives, coatings or cleansers on or in the façade system may impact the performance of LATICRETE Air & Water Barrier. It is the user's responsibility to determine the proper construction materials needed.
- For adhered veneer applications, substrates must be structurally sound, stable and rigid enough to support the intended finish. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/600 where L=span length.
- Placement of LATICRETE Air & Water Barrier in a wall assembly to be determined by project design professional.

4. TECHNICAL DATA

Applicable Standard

ICC – ES AC212: Acceptance Criteria for Resistive Coatings us as Water Resistive Barriers over Exterior Sheathing.

ICC – ED AC38: Acceptance Criteria for Water-Resistive Barriers

Physical Properties

Physical Property	Test Method	LATICRETE® Air & Water Barrier™
Tensile Strength Aluminum	ASTM C29	546 psi (3.8 Mpa)
Tensile Strength Copper	ASTM C297	216 psi (1.5 Mpa)
Tensile Strength Galvanized Steel	ASTM C29	530 psi (3.7 Mpa)
Tensile Strength Polyvinyl chloride (PVC)	ASTM C297	273 psi (1.9 MPa)
Tensile Strength Painted Aluminum	ASTM C297	368 psi (2.5 Mpa)
Freeze Thaw Glas Mat Gypsum Exterior Sheathing Panels	AC212 Sec. 4.2	Pass 10 Cycles
Freeze Thaw Cement Board	AC212 Sec. 4.2	Pass 10 Cycles
Water Resistance Test Glas Mat Exterior Gypsum Sheathing Panels	ASTM D2247	Passed 14 Day Exposure
Water Resistance Test Cement Board	ASTM D2247	Passed 14 Day Exposure
Water Vapor Transmission Test	ASTM E96-00e1	6.8 gm/24 hr.m ²
Water Vapor Permeance Test	ASTM E96-00e1	1.002 grains/hr.in.Hg.ft ²
Water Penetration Test	ASTM E331	Pass
Transverse Load (Structural) Test	ASTM E1233	Pass
Racking Shear Test	ASTM E72	Pass
Restrained Environmental Conditioning	AC212 Sec. 4.7.3	Pass
Weathering Test	AC212 SEC. 4.8	Pass
Ultraviolet Exposure	AC212	Pass
Accelerated Aging	AC212	Pass
Hydrostatic Pressure Test	AATCC 127	Pass
Air Permanence Test	ASTM E 2178	Pass

LATICRETE Air & Water Barrier can be applied using airless spray equipment or paint roller. All areas must have two coats to ensure proper coverage. Substrate will not show through LATICRETE Air & Water Barrier if coated with 0.020–0.030" (0.5–0.8 mm) of dried membrane. Color changes from a light sage to olive green when fully cured.

5. INSTALLATION

See LATICRETE Air & Water Barrier How to Install Instructions DS 661.5 for complete installation instructions.

Surface Preparation

Surface temperature must be 50–90°F (10–32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Dampen hot, dry surfaces and sponge off excess water—installation may be made on a damp surface. Remove loose aggregates, concrete, nails, screws or other sharp protrusions that may interfere with or compromise the adhesion of the LATICRETE Air & Water Barrier.

- Install sheathing boards and panels per board/panel manufacturer's installation instructions.
- Installer must verify that deflection under all live, dead and impact loads is L/600 for all exterior veneer applications where L=span length.

Cleaning

While wet, LATICRETE Air & Water Barrier can be washed from tools with water.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information, call:

Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010

For on-line Distributor Information, visit LATICRETE at www.laticrete.com.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM.

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.15SPD: LATICRETE 15 Year System Warranty – SPD
For Steel or Wood Framed Exterior Facades

DS 025.0SPD: LATICRETE 25 Year System Warranty – SPD

8. MAINTENANCE

LATICRETE and LATAPOXY grouts, sealants and pointing mortars require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY 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 (hours 8:00 AM to 5:30 PM EST):

Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010, ext. 235
Fax: +1.203.393.1948

Technical and safety literature

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

10. FILING SYSTEM

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

DS 230.13: LATICRETE Product Warranty
DS 230.15SPD: LATICRETE 15 Year System Warranty – SPD
For Steel or Wood Framed Exterior Facades
DS 025.0SPD: LATICRETE 25 Year System Warranty – SPD
DS 237.0: LATICRETE Waterproofing/Anti-Fracture Fabric
DS 6200.1: LATICRETE LataSil™
TDS 410M: Spraying LATICRETE Air & Water Barrier
DS 070.0: LATAPOXY Waterproof Flashing Mortar
DS 661.5: How to install instructions – LATICRETE Air & Water Barrier

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