



# MVIS™ Air & Water Barrier

DS-661-0522

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

MVIS™ Air & Water Barrier

## 2. MANUFACTURER

LATICRETE International, Inc.

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## 3. PRODUCT DESCRIPTION

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

### Uses

- Designed for use as an air and water barrier behind exterior wall claddings.
- Will preform as an air barrier over CBB when detail and sealed to all penetrations, windows and doors.
- Performs as a component of a building air barrier system when placed over exterior rated sheathing. OSB, EGP.

- 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 Waterproofing/Anti-Fracture Fabric.
- Creates an air and weather barrier coating for applications to glass mat gypsum exterior sheathing panels, exterior glue plywood, OSB, cement board sheathing and other approved substrates.
- Consult LATICRETE Technical Services Department for further options.

### Advantages

- Meets ASTM E2357 Air Leakage of Building Assemblies.
- Adhered Exterior veneers may be installed to membrane using Polymer Fortified Veneer Mortars over concrete, brick, cement plaster and cement backer board.
- Excellent bond strength.
- Contribute to overall building energy efficiency.
- Equipped with anti-microbial technology.
- Works together with MVIS Transition Tape and MVIS Flexible Sealing Tape to help provide complete protection of the building envelope.
- Meets ASTM D 1970 Nail Sealability requirements.
- Lighter color for ease of inspection.
- Non-flammable.
- MVIS Air & Water Barrier is an Air Barrier Association of America (ABAA) Evaluated Material and is part of an ABAA Evaluated Assembly.
- Exceeds ANSI A118.10 (bondable waterproof membrane) and A118.12 (crack isolation membrane) standards when used immediately inboard of MVIS adhesive mortars in adhered veneer wall assemblies.

### Suitable Substrates

- Concrete and Brick Masonry
- Cement Render
- Oriented Strand Board (OSB)
- Exterior Glue Plywood (Interior Only)
- Cement Backer Board
- Glass Mat Gypsum Exterior Sheathing Panels

### Packaging

Commercial Unit

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

## Approximate Coverage

Commercial Unit: 250 ft<sup>2</sup> (23.2 m<sup>2</sup>)

Each wet coat thickness is 15 – 22 mils, 0.015” – 0.022” (0.4 – 0.6mm); use wet film gauge to check thickness; consumption/coat is approximately 0.01 gal/ft<sup>2</sup> (0.4 L/m<sup>2</sup>); coverage/coat is approximately 100 ft<sup>2</sup>/gal (2.5 m<sup>2</sup>/L). Applied in two coats for a total dry coat thickness of 20-30 mils, 0.02-0.03” (0.5-0.8mm); for a total of 250 ft<sup>2</sup> per 5 gallons/23.2m<sup>2</sup> per (18.9 L) pail.

## 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 bond to particle board, interior glue plywood, luan, Masonite® or hardwood surfaces.
- When used as a component of an air barrier system, MIVS™ Air & Water Barrier is not functioning as a waterproofing/anti-fracture membrane.
- When used in an MVIS system, MVIS Air & Water Barrier may not necessarily be recommended outboard of the insulation in some Climate Zones. Always consult with design professional for membrane position in an assembly.
- OSB is not suitable as a veneer substrate.
- 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.
- Based on information provided in the Technical Data Table – Section 4 of this document. The design professional / specifier should detail and specify vapor barrier layer material type and location within the installation assembly and in accord with local building codes and to determine suitability of MVIS™ Air & Water Barrier within the installation assembly.
- Do not expose to negative hydrostatic pressure, rubber solvents or ketones.
- Do not expose membrane directly to sun or weather for more than 90 days for direct adhered masonry veneer or cavity wall air and water barrier installations.
- Do not use below grade.
- MVIS 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 MVIS Air & Water Barrier.
- Do not install if surface temperature is below 50°F (10°C) or above 90°F (32°C).
- Not for use beneath directly applied cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.

## Cautions

- Consult SDS for safety information.
- Review local building codes and obtain any required approvals before using MVIS Air & Water Barrier. Placement of MVIS Air & Water Barrier in a wall assembly to be determined by project design professional.
- It is the responsibility of the project design professionals to ensure that the air barrier, vapor barrier, insulation, and waterproofing membrane are all properly placed to prevent the movement of air and moisture into and out of the building to ensure maximum performance.
- Allow wet mortars/renders to cure for a minimum of 72 hours at 70°F (21°C) / 50% R.H. prior to installing MVIS Air & Water Barrier.
- Mechanical anchors, brick ties, furring strips, finish cladding supports or other penetrations through MVIS Air & Water Barrier should be sealed and made air and watertight.
- 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 MVIS 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 MVIS 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 MVIS Air & Water Barrier in a wall assembly to be determined by project design professional.

## 4. TECHNICAL DATA

MICROBAN®



### VOC/LEED Product Information

Total VOC content pounds/gallon (grams/liter) of product in unused form is 0.02lb/gal (2.39 g/L).

This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program For Chemical

Emissions For Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

**Applicable Standard**

- ASTM E 2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.
- ICC – ESAC212: Acceptance Criteria for Resistive Coatings us as Water Resistive Barrier over Exterior Sheathing.
- ICC – ED AC38: Acceptance Criteria for Water-Resistive Barriers
- ANSI 118.10
- ANSI 118.12

## Physical Properties

| Physical Property  | Test Method                  | Specifications                    | Results                    |
|--|------------------------------|-----------------------------------|----------------------------|
| Fastener Sealability   | ASTM D1970                   | No Leakage                        | Pass                       |
| Flatwise Tensile Strength to Aluminum                            | ASTM C297                    | 15 psi (0.34 MPI)                 | 546 psi (3.8 MPa)          |
| Flatwise Tensile Strength to Copper                              | ASTM C297                    | 15 psi (0.34 MPI)                 | 216 psi (1.5 MPa)          |
| CAN/ULC – S742-11  | Proposal Number 12-006-04895 | <0.05 L/s-m <sup>2</sup> at 75 pa | A1 Rating                  |
| Air Leakage  | ASTM E2357                   | <0.3 L/s-m <sup>2</sup>           | 0.00168 L/s-m <sup>2</sup> |
| Flatwise Tensile Strength to Galvanized Steel                    | ASTM C297                    | 15 psi (0.34 MPI)                 | 530 psi (3.7 MPa)          |
| Flatwise Tensile Strength to Polyvinyl Chloride (PVC)            | ASTM C297                    | 15 psi (0.34 MPI)                 | 273 psi (1.9 MPa)          |
| Tensile Strength Painted Aluminum                                | ASTM C297                    | 15 psi (0.34 MPI)                 | 368 psi (2.5 MPa)          |
| Freeze Thaw Glass Mat Gypsum Exterior Sheathing Panels           | AC212 Sec. 4.2               | No deterioration                  | Pass 10 Cycles             |
| Freeze Thaw Cement Board   | AC212 Sec. 4.2               | No deterioration                  | Pass 10 Cycles             |
| Water Resistance Test Glass Mat Exterior Gypsum Sheathing Panels | ASTM D2247                   | No deterioration                  | Passed 14 Day Exposure     |

|  |  |                      |  |
|--|--|----------------------|--|
| Water Resistance Test Cement Board                           | ASTM D2247                                     | No deterioration     | Passed 14 Day Exposure                           |
| Pull-Off Strength CMU  | ASTM D4541-02                                  | 15.95 PSI            | 223 PSI  |
| Pull-Off Strength Glass Mat Gypsum Exterior Sheathing Panels | ASTM D4541-02                                  | 15.95 PSI            | 47 PSI   |
| Water Vapor Transmission Rate                                | ASTM E96-00e1 (Procedure A) Desiccant Method   | N/A                  | 1.081 gm/24 hr.m <sup>2</sup>                    |
| Water Vapor Permeance  | ASTM E96-00e1*† (Procedure A) Desiccant Method | N/A                  | 0.157 (grains/hr.in.Hg.ft <sup>2</sup> ) (Perms) |
| Water Vapor Transmission Rate                                | ASTM E96-00e1 (Procedure B) Water Method       | N/A                  | 6.8 gm/24 hr.m <sup>2</sup>                      |
| Water Vapor Permeance  | ASTM E96-00e1 (Procedure B) Water Method       | N/A                  | 1.002 (grains/hr.in.Hg.ft <sup>2</sup> ) (Perms) |
| Water Penetration Test                                       | ASTM E331                                      | No Water Penetration | Pass   |
| Transverse Load (Structural) Test                            | ASTM E1233                                     | No Cracking          | Pass   |
| Racking Shear Test   | ASTM E72                                       | No Cracking          | Pass   |

|                                       |                  |                    |      |
|---------------------------------------|------------------|--------------------|------|
| Restrained Environmental Conditioning | AC212 Sec. 4.7.3 | No Cracking        | Pass |
| Weathering Test                       | AC212 SEC. 4.8   | No Sign Of Failure | Pass |
| Ultraviolet Exposure                  | AC212            | No Sign Of Failure | Pass |
| Accelerated Aging                     |                  |                    |      |

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

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

MVIS 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 MVIS 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. Refer to LATICRETE® TDS 410M for more information on the spray application of MVIS Air & Water Barrier.

### Cleaning

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

## 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](http://laticrete.com)

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

- DS 230.13: 1 Year Product Warranty
- DS-230.15SPD: LATICRETE 15 Year System Warranty For Steel or Wood Framed Exterior Facades (United States and Canada) MVIS

## 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 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](http://laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [laticrete.com](http://laticrete.com). The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada)
- DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
- DS 070.0: LATAPOXY Waterproof Flashing Mortar
- DS 237.0: Waterproofing/Anti-Fracture Fabric
- DS 661.5: How to install instructions – MVIS Air & Water Barrier
- DS 658.0: MVIS Transition Tape
- DS 659.0: MVIS Flexible Sealing Tape
- TDS 410M: Spraying MVIS Air & Water Barrier

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