

## AIR-SHIELD™ LMP

### Liquid Membrane Vapor Permeable Air Barrier

#### DESCRIPTION

AIR-SHIELD LMP is a water-based air barrier that cures to form a tough, seamless, elastomeric membrane. AIR-SHIELD LMP exhibits excellent resistance to air leakage.

#### USE

AIR-SHIELD LMP has been specifically formulated to act as an air barrier within the building envelope, while allowing moisture vapor to pass through it. It may be applied to most common surfaces and integrated into various wall systems. AIR-SHIELD LMP is suitable for both new construction and retro-fit applications.

#### FEATURES/BENEFITS

- HIGH PERMEABILITY - allows the transmission of moisture vapor through porous building materials.
- HIGHLY FLEXIBLE - bridges cracks, which may form in the substrate.
- UV resistant – can be left exposed to sunlight.
- USER FRIENDLY - single component, water-based technology allows for simple, safe application and easy clean up.
- LIQUID APPLIED - simplifies detailing and assures a monolithic, seamless membrane when applied to a rough or smooth surface.
- SPRAYABLE - with appropriately configured airless spray equipment - low application costs.
- EXCELLENT ADHESION - remains firmly bonded to the substrate, even when applied over damp surfaces.
- VOC CONTENT – less than 100 g/L.

#### SPECIFICATIONS

- Exceeds Air Barrier Association of America (ABAA) Section 07263 Liquid-Applied Vapor Permeable Air Barrier System.
- Exceeds the requirements of the Massachusetts Commercial Energy Code For Building Envelope Systems.
- 1995 National Building Code of Canada.

#### SHELF LIFE

12 months in unopened container. Do not store in temperatures over 90° F or below 40° F.

#### PHYSICAL PROPERTIES

<b>% Solids</b>	60
<b>Color</b>	Grey (Black – special order only)
<b>Flexibility @ -20° C (ASTM C836)</b>	PASS
2” mandrel	
<b>Elongation (ASTM D-412)</b>	1000% (typical)
<b>Water Vapor Permeance</b>	12 Perms
(45 mil. dry film)	
(ASTM E-96, Procedure B)	
<b>Service Temperature</b>	-20° F (-29° C) to 120° F (49° C)
<b>Application Temperature</b>	Above 40° F (4° C)
<b>Storage Temperature</b>	40° F to 90° F (4° C to 30° C)

#### PACKAGING

5 Gallon (18.93 Liter) Pails

\*Air Leakage (Tested per ASTM E 2178-01)

Pressure		Air Leakage (ABAA requirement)	Results for AIR-SHIELD LMP	Air Leakage (ABAA requirement)	Results for AIR-SHIELD LMP
Pa	lbs./sq.ft.	L/sM <sup>2</sup>	L/sM <sup>2</sup>	cfm/sq. ft.	cfm/sq. ft.
75	1.57	0.02	Less than 0.02	0.004	Less than 0.004

\*Independent tests available upon request.

CONTINUED ON REVERSE SIDE...

**SURFACE PREPARATION**

All surfaces must be clean (free of all coatings and curing compounds), structurally sound and relatively smooth. AIR-SHIELD LMP can be applied to "green" or damp concrete if there is no liquid water on the surface.

**Exterior Sheathing Panels:**

Prior to the application of AIR-SHIELD LMP, joints 1/4" or greater in exterior sheathing panels [drywall, plywood and oriented strand board (OSB) and glass-faced wall boards, such as DensGlass® Gold] should be covered with tape or filled with a mastic or caulking compound.

**Details and Protrusions:**

Before application of AIR-SHIELD LMP, apply a 6" (152 mm) minimum wide strip of AIR-SHIELD self-adhering air barrier where joints between dissimilar building materials occur, i.e. details around doors and windows, as well as protrusions. Architectural details are available online at [www.wrmeadows.com](http://www.wrmeadows.com), or by calling 1-800-342-5976.

**Concrete Masonry Units:**

Before applying AIR-SHIELD LMP to CMU surfaces, patch all cracks, protrusions, small voids, offsets, details, irregularities and small deformities with MEADOW-PATCH® 5 or MEADOW-PATCH 20 from W.R. MEADOWS at least two hours before application.

**APPLICATION**

AIR-SHIELD LMP may be applied by spraying or roller. (For recommendations on spray equipment, consult W.R. MEADOWS technical staff.)

AIR-SHIELD LMP may be sprayed on at the minimum coverage rate of approximately 16-20 sq. ft./gal. (90 mils, wet) (45 mils, dry).

Frequently inspect surface area with a wet mil gauge to ensure consistent thickness. Work material well into any fluted rib forming indentations. Porous masonry block walls may require additional coats to obtain desired thickness.

**CURING & DRYING**

Apply at air and surface temperatures of 40° F (4° C) or higher. Curing times will be affected by relative humidity, temperature and airflow. The following times are given for average conditions and standard thickness. Actual times may differ, depending on specific conditions present on job at time of application. It is recommended that AIR-SHIELD LMP be allowed to cure before application of specified insulation.

Tack free film: 2 hours

Full cure: 48 hours

**LIMITED WARRANTY**

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

**Disclaimer**

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

**COVERAGE**

<b>Application Rate</b>	16-20 sq. ft./gal.
<b>Wet Film Thickness</b>	90 mil (2.3 mm)
<b>Cured Film Thickness</b>	45 mil (1.15 mm)

**CLEAN-UP**

Uncured AIR-SHIELD LMP cleans up easily while wet with water. Cured material is best removed by Xylene (Xylol) or by mechanical means.

**PRECAUTIONS**

Keep containers tightly sealed. KEEP FROM FREEZING. Do not apply AIR-SHIELD LMP if rainfall is forecast or imminent within 12 hours. Do not apply AIR-SHIELD LMP when air, material and surface temperatures are expected to fall below 32° F (0° C) within 24 hours of completed application.

**HEALTH HAZARDS**

Direct contact may result in mild irritation to the eyes and skin. Should adverse effects occur, remove subject from area immediately. If irritation occurs and persists, move victim from exposure source and treat symptomatically. Flush affected areas with mild soap and water. Consult product material safety data sheet (MSDS) for complete health and safety information.

**TECHNICAL ASSISTANCE**

Please contact W. R. MEADOWS for specific details and/or data not outlined in this literature. Technical assistance, from design to product application, is available upon request.

**FOR THE MOST CURRENT PRODUCT INFORMATION, VISIT OUR WEBSITE:**  
[www.wrmeadows.com](http://www.wrmeadows.com)