



DATA SHEET NO. 7200-724

AIR-SHIELD™ LM

Liquid Membrane Air/Vapour Barrier and Liquid Moisture Barrier

DESCRIPTION

AIR-SHIELD LM is a single-component, liquid-applied, water-based, polymer-modified air/vapour and liquid moisture barrier. AIR-SHIELD LM cures to form a tough, seamless, elastomeric membrane, which exhibits excellent resistance to air and moisture transmission.

USES

AIR-SHIELD LM has been specifically formulated to act as an air/vapour and liquid moisture barrier within the building envelope. It may be applied to most common surfaces and integrated into various wall systems. AIR-SHIELD LM is suitable for both new construction and restoration. Primary applications include cavity wall and masonry wall construction. AIR-SHIELD LM works equally well as an air and/or vapour barrier on precast concrete, cast-in-place concrete, masonry (concrete block), interior and exterior gypsum board, Styrofoam, primed steel, aluminum mill finish, anodized aluminum, primed galvanized metal, drywall, and plywood.

FEATURES/BENEFITS

- Low permeability – prevents the transmission of air and inhibits moisture and vapour from passing through porous building materials.
- Highly flexible – bridges cracks, which may form in the substrate.
- 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 is 0.0 g/L. Produces no harmful odours.
- Compatible with other asphalt-based emulsion products.
- May be applied to “green” concrete.
- Self-sealing - Nails and fasteners can be used without compromising performance.

PACKAGING

18.9 Litre (5 U.S. Gallon) Pails
208.2 Litre (55 U.S. Gallon) Drums*
*Available upon special order only

COVERAGE

Application Rate 0.49 - 0.61 m²/L
(20 – 25 ft.²/gal.)

Wet Film Thickness 60 mil (1.5 mm)

Cured Film Thickness 45 mil (1.15 mm)

Coverage dependant on substrate type, weather, and application conditions.

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within six months of date of manufacture.

SPECIFICATIONS

- Meets CAN/CGSB-51-33, Type 1 Water Vapour Permeance Requirements.
- 2015 National Building Code of Canada.
- Exceeds NABA maximum air permeance requirements when tested in accordance with ASTM E2178.
- Exceeds NABA maximum assembly air leakage requirements when tested in accordance with ASTM E2357.
- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations.

Air Leakage

Test Method	ASTM E2178-01	ASTM E2357
Pressure	75 Pa (1.57 lb./ft. ²)	75 Pa (1.57 lb./ft. ²)
AIR-SHIELD LM Results	<0.02 L/S/M ² (<0.004 cfm/ft. ²)	<0.2 L/S/M ² (<0.04 cfm/ft. ²)

*Independent tests available upon request.

TECHNICAL DATA

% Solids	70
Colour	Black
Elongation (ASTM D412)	1500%
Water Vapour Permeance (ASTM E96, Procedure A)	IBC Class I Vapour Retarder 0.1 Perms
Service Temperature	-29° to 60° C
Application Temperature	> -1° C
Storage Temperature	4° - 30° C

Continued Over ...

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APPLICATION

Surface Preparation ... All surfaces must be clean (free of all coatings and curing compounds), structurally sound, and relatively smooth. Prepare substrate per manufacturer's instruction prior to application of membrane. All walls to receive AIR-SHIELD LM be capped to prevent moisture infiltration from entering the wall during construction

Exterior Sheathing Panels ... Exterior sheathing panels are to be installed and fastened per manufacturer's recommendation. For detailed application information, see INSTALLATION INSTRUCTIONS: JOINT TREATMENT OF EXTERIOR SHEATHING PANELS WHEN USING AIR-SHIELD LM available at www.wrmeadows.com. For joint treatment in plywood and OSB sheathing, please see PLYWOOD SHEATHING JOINT DETAIL INSTALLATION GUIDELINES also available at www.wrmeadows.com.

Rough Openings ... Refer to AIR-SHIELD ROUGH OPENINGS INSTALLATION GUIDELINES document available at www.wrmeadows.com for recommendations.

Concrete Masonry Units ... Before applying AIR-SHIELD LM 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 Method ... AIR-SHIELD LM may be applied by spraying or by using a 19 mm (3/4") minimum nap roller. (For recommendations on spray equipment, consult W. R. MEADOWS technical staff.)

Thoroughly, mechanically mix AIR-SHIELD LM prior to application. AIR-SHIELD LM may be sprayed on at a minimum coverage thickness of 60 mils wet (45 mils dry). Spray using a cross-hatch pattern to lay an even coat. Build 60 mils total wet thickness in multiple coats. Apply the next coat after the first coat has dried (approximately one to two hours). 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. AIR-SHIELD LM may be exposed to open air for 30 - 40 days, depending on specific weather conditions at jobsite.

For roller applications, AIR-SHIELD LM can be applied directly from the container using a 19.05 mm (3/4") nap roller. Apply in two coats, each 30 mils thick, allowing first coat to reach initial set prior to application of second coat.

Curing and Drying ... Allow material to dry at air and surface temperatures of -1° C or higher. Curing times will be affected by relative humidity, temperature, and airflow. The following times are given for average conditions and standard thicknesses. Actual times may differ, depending on specific conditions present on job at time of application. It is recommended that AIR-SHIELD LM be allowed to air dry to a tack-free film before application of specified insulation.

Tack free film: 1 hour
Full cure: 48 hours

Clean Up ... Uncured AIR-SHIELD LM cleans up easily while wet with water. Cured material is best removed by xylene (xylol) or by mechanical means.

PRECAUTIONS

AIR-SHIELD LM is not designed to perform as a permanently exposed membrane. Keep containers tightly sealed. KEEP FROM FREEZING. Do not apply AIR-SHIELD LM if rainfall is forecast or imminent. Do not apply AIR-SHIELD LM when air, material, and surface temperatures are expected to fall below -1° C within four hours of completed application. Adhesion of membrane on oriented strand board (OSB) can sometimes be affected by the level of surface texture or the presence of wax that is part of the binder used to bond together the wood strands. Prior to placement on OSB, in-situ adhesion tests should be performed to determine suitability of substrate prior to full installation. If there are variations in the OSB surface, multiple tests may be required

MASTERFORMAT NUMBER AND TITLE

07 27 26 - Fluid-Applied Membrane Air Barriers

For BIM models, CAD details, most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.



2021-12-15

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