PRODUCT DATA

CSI Code: 07 27 16

W. R. MEADOWS SEALTIGHT

NO. 724-A

NOVEMBER 2005

AIR-SHIELD$_{TM}$ LM (ALL SEASON)

Single Component, Liquid Applied, Polymer-Modified,
Air/Vapor Barrier

DESCRIPTION

AIR-SHIELD LM (ALL SEASON) is a single component, liquid applied, polymer-modified air/vapor barrier. AIR-SHIELD LM (ALL SEASON) cures to form a tough, seamless, elastomeric membrane, which exhibits excellent resistance to air and moisture transmission.

USES

AIR-SHIELD LM (ALL SEASON) has been specifically formulated to act as an air/vapor barrier within the building envelope. It may be applied to most common surfaces and integrated into various wall systems. The material is suitable for application on new construction and restoration projects.

FEATURES/BENEFITS

- LOW PERMEABILITY - prevents the transmission of air and inhibits moisture vapor transmission through porous building materials.
- ALL WEATHER APPLICATION – can be applied at temperatures down to 10° F.
- HIGHLY FLEXIBLE - bridges cracks, which may form in the substrate.
- 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.
- LOW VOC – less than 400 g/L.

PACKAGING

5 Gallon (18.93 Liter) Pails
55 Gallons (208.20 Liter) Drums**

**Available upon special order only.

SPECIFICATIONS

- Exceeds Air Barrier Association of America (ABAA) Section 07262 Liquid-Applied Air/Vapor Barrier System.
- Exceeds the requirements of the Massachusetts Commercial Energy Code For Building Envelope Systems.
- Meets CAN/CGSB-51-33, Type I Water Vapor Permeance Requirements.
- 1995 National Building Code of Canada.

SHELF LIFE

12 months in unopened container. Do not store in temperatures over 100° F.

PHYSICAL PROPERTIES

Solids	65%
Color	Black
Flexibility @ -20° F (ASTM D146) 2" mandrel	PASS
Elongation (ASTM D-412)	>1000%
Water Vapor Permeance (45 mil. dry film) (ASTM E-96, Procedure B)	0.06 Perms
Service Temperature	-40°F (-40°C) to 140°F (60°C)
Application Temperature	Above 10° F (-12° C)
Storage Temperature	Below 100° F (38° C)
Flash point	103° F

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

Pressure		Air Leakage (ABAA requirement)	Results for AIR-SHIELD LM	Air Leakage (ABAA requirement)	Results for AIR-SHIELD LM
Pa	**lbs./sq.ft.**	**L/sM^2**	**L/sM^2**	**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…

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SURFACE PREPARATION

All surfaces must be clean and dry and free of all coatings and curing compounds. Do not apply to "green" concrete. Concrete must be dry and cured a minimum of 14 days prior to application. Do not apply to polystyrene insulation boards.

Exterior Sheathing Panels:
Prior to the application of AIR-SHIELD LM (ALL SEASON), joints ¼" or greater in exterior sheathing panels [drywall, plywood and oriented strand board (OSB) and glass-faced wall boards, such as DensGlass® Gold], should be taped with a minimum 2" (50 mm) wide contractors mesh style wallboard tape. For spray applications, stapling of the tape to the substrate is recommended.

Details and Protrusions:
Before application of AIR-SHIELD LM (ALL SEASON), apply a 6" (152 mm) minimum wide strip of AIR-SHIELD$_{TM}$ 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, or by calling 1-800-342-5976.

Concrete Masonry Units:
Before applying AIR-SHIELD LM (ALL SEASON) 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.

SPRAYING APPLICATION

Store material at room temperature or warm material to a minimum of 50^{o} F prior to application. It may be applied by spraying or by using a 3/4" minimum nap roller. (For recommendations on spray equipment, consult W. R. MEADOWS technical staff.)

AIR-SHIELD LM (ALL SEASON) may be sprayed on at the minimum coverage rate of approximately 17 -20 sq. ft./gal. (80 mils, wet) (45 mils, dry). Note: Roller applications may require two coats (40 mils wet) to obtain the proper thickness. Apply second coat after first coat has dried, approximately one to two hours after first coat. 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.

SPRAYING EQUIPMENT

For detailed information on spray equipment recommendations, use and clean up, please refer to W. R. MEADOWS technical bulletin #05-724-A, available at **www.wrmeadows.com/spraying**, or the softbound catalog.

CURING & DRYING

Allow material to dry at air and surface temperatures of 10° F (-12° C) or higher. Curing times will be affected by 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. AIR-SHIELD LM (ALL SEASON) should be allowed to air dry at least 48 hours before application of specified insulation. A prime coat of AIR-SHIELD LM (ALL SEASON) should be allowed to cure until tacky, or beads of POINTING MASTIC can be used to secure the insulation to the wall. Polystyrene insulation boards can only be applied if the membrane is thoroughly cured (72 hrs. minimum), and there is no danger of residual solvent degrading the boards.

Tack free film: 2 hours
Full cure: 48 hours

COVERAGE

Application Rate	17 - 20 sq. ft./gal.
Wet Film Thickness	80 mil
Cured Film Thickness	45 mil (1.15mm)

CLEAN UP

Cleans up easily while wet with mineral spirits, paint thinner, or aromatic solvents. Cured material is best removed with aromatic solvent or by mechanical means.

PRECAUTIONS

Do not apply indoors. Use with adequate ventilation. No open flames. **Do not apply to polystyrene insulation boards as the solvent will attack the boards.** Do not apply if rainfall is forecast or imminent within two hours. AIR-SHIELD LM (ALL SEASON) is not designed to perform as a permanently exposed membrane. Membrane should be covered within 30 days after application to avoid degradation caused by UV exposure. Keep containers tightly sealed.

HEALTH & SAFETY

Recommended for outdoor use only. Avoid ignition sources. Avoid direct contact with product. Product is combustible. Avoid prolonged breathing of vapors. Utilize appropriate personal protective equipment including chemical resistant gloves, eye protection, and/or respiratory protection. Consult product material safety data sheet (MSDS) for complete health and safety information. Flash point: 103^{o}F

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 AND CAD DETAILS, VISIT OUR WEBSITE:
www.wrmeadows.com

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

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