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AIR-SHIELD™ LM (ALL SEASON) (Supersedes November 2009)

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

DESCRIPTION

AIR-SHIELD LM (ALL SEASON) is a single-component, liquid-applied, polymer-modified air/vapor and liquid moisture barrier. AIR-SHIELD LM (ALL SEASON) cures to form a tough, seamless, elastomeric membrane, which exhibits excellent resistance to air and moisture transmission. VOC content = 400 g/L.

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 - inhibits both air and moisture vapor transmission through porous building materials.
- All weather application - can be applied at temperatures down to 10° F.
- Highly flexible - bridges minor 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 - <400 g/L.

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

Pressure		Air Leakage (ABAA requirement)	Results for AIR-SHIELD LM (ALL SEASON)	Air Leakage (ABAA requirement)	Results for AIR-SHIELD LM (ALL SEASON)
Pa	lb./ ft. ²	L/sM ²	L/sM ²	cfm/ ft. ²	cfm/ ft. ²
75	1.57	0.02	< 0.02	0.004	< 0.004

*Independent tests available upon request.

CONTINUED ON REVERSE SIDE...

TECHNICAL DATA

Solids, %	65	WRM Test Method
Color	Black	Visual
Flexibility @ -20° F 2" mandrel	PASS	ASTM D 146
Elongation	>1000%	ASTM D 412
Water Vapor Permeance	0.06 Perms	ASTM D 96 (Procedure B)
Service Temperature	-40° to 140° F (-40° to 60° C)	
Application Temperature	Above 10° F (-12° C)	
Storage Temperature	60 - 100° F	
Flash Point	103° F	ASTM D 93

APPLICATION

Surface Preparation ... All surfaces must be clean, dry, and structurally sound. Surfaces must be free of any curing compounds, coatings, release agents, and frost.

Concrete must be a minimum of 14 days old prior to application of AIR-SHIELD LM (ALL SEASON). Do not apply to fresh or "green" concrete.

Do not apply to polystyrene insulation boards.

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 FLUID APPLIED MEMBRANES available at www.wrmeadows.com.

Details and Protrusions ... Before application of AIR-SHIELD LM (ALL SEASON), apply a 6" (152 mm) minimum wide strip (lapped 3" on each side) of AIR-SHIELD where joints between dissimilar building materials occur (i.e., details around doors and windows, as well as protrusions). Architectural details are available 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.

SPRAYER APPLICATION

Store material at room temperature or warm material to a minimum of 60° 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) must be a minimum of 60° F (15° C) prior to spraying. Product will become very thick and difficult to spray at lower temperatures. AIR-SHIELD LM (ALL SEASON) must be stored in a heated trailer and/or passed through a heat exchanger for successful spraying.

Equipment ... AIR-SHIELD LM (ALL SEASON) is most effectively and efficiently applied by using either the Graco HydraMax 350 or GH 833 Big Rig sprayer.

The Graco heavy duty texture gun with the 0.035" (GHD 535) heavy duty switch tip is recommended for best results.

For detailed information on spray equipment recommendations, use, and cleanup, please refer to W. R. MEADOWS technical bulletin #05-724-A, available on the building envelope page of www.wrmeadows.com or in the softbound catalog.

AIR-SHIELD LM (ALL SEASON) may be sprayed on at the minimum coverage rate of approximately 17 -20 ft.²/gal. to achieve 80 mils wet (2.03 mm) wet, 45 mils (1.14 mm) dry. Two coats may be required to achieve desired thickness in hot weather. Note: Roller applications may require two coats (each 40 mils wet) to obtain the proper thickness. Apply second coat after first coat has dried, approximately 1 - 2 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.

Drying Time ... Allow material to dry at air and surface temperatures of 10° F (-12° C) or higher. The following times are given for typical conditions and standard thickness. Actual times may differ depending on specific conditions present on job at time of application, such as temperature, humidity, airflow, etc. AIR-SHIELD LM (ALL SEASON) should be allowed to air dry at least 48 hours before application of specified insulation. Beads of POINTING MASTIC from W. R. MEADOWS 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 (typical)

Full cure: 48 hours (typical)