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AIR-SHIELD™ LSR

Liquid Membrane Air/Vapor and Liquid Moisture Barrier

DESCRIPTION

AIR-SHIELD LSR (liquid synthetic rubber) is an asphalt-free, single-component, synthetic rubber based liquid air/vapor and liquid moisture barrier. AIR-SHIELD LSR cures to form a tough, seamless, elastomeric membrane, which exhibits excellent resistance to air and moisture transmission.

USES

AIR-SHIELD LSR has been specifically formulated to act as an air/vapor and liquid moisture barrier within the building envelope. It may be applied to most common surfaces and integrated into various wall systems. AIR-SHIELD LSR is suitable for both new construction and restoration.

FEATURES/BENEFITS

- Non-asphaltic – designed to meet stringent fire wall codes and requirements.
- Low permeability - prevents the transmission of air and inhibits moisture and vapor from passing through porous building materials.
- Highly flexible - bridges cracks, which may form in the substrate.
- Environmentally compatible - AIR-SHIELD LSR is non-toxic.
- User friendly – single-component, water-based technology allows for simple, safe application and easy cleanup.
- 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.
- Low VOC content (<100 g/L). Produces no harmful odors.
- Compatible with asphalt-based emulsion products.
- UV resistant – membrane can be left exposed up to four months.

PACKAGING

5 Gallon (18.93 L) Pails
55 Gallon (208.20 L) Drums

COVERAGE

Application Rate 17-22 ft.²/gal. (1.59 – 2.05 m²/3.8 L)
Wet Film Thickness 80 mil
Cured Film Thickness 40 mil (1 mm)

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

SHELF LIFE

One year in unopened container. Do not store in temperatures over 90° F (32° C) or below 40° F (4° C).

SPECIFICATIONS

- Complies with all current federal, state, and local maximum allowable VOC requirements, including U.S. EPA, LADCO, SCAQMD, and OTC.
- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations

TECHNICAL DATA

Solids Content, %:	56
Color:	Light Tan
Flexibility @ -26° C (-15° F), (ASTM C 836):	PASS
Tensile Strength, PSI	250
Elongation (ASTM D 412), %:	700
Water Vapor Permeance (ASTM E 96, Procedure B) Perms:	0.1
Service Temperature:	Not to exceed 175° F (80° C)
Nail Sealability (ASTM D 1970):	Pass
Storage and Application Temperature of AIR-SHIELD LSR For Roller Application:	40 - 90° F (4 - 32° C)
For Spray Application:	60 - 90° F (16 - 32° C)
Air/Substrate Temperature (At Time of Application):	> 40° F (4° C)

Air Leakage

Test Method	ASTM E 2178-01
Pressure:	75 Pa (1.57 lb/ft. ²)
ABAA Requirements, maximum:	0.004 cfm/ft. ² (0.02 L/S/M ²)
AIR-SHIELD LSR Results:	<0.004 cfm/ft. ² (0.02 L/S/M ²)

*Independent test available upon request

CONTINUED ON REVERSE SIDE...

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.

Exterior Sheathing Panels ... Exterior sheathing panels are to be installed and fastened per manufacturer's recommendation. Joints <1/4" should be pretreated with AIR-SHIELD LSR or filled with AIR-SHIELD JOINT FILLER in order for the material to create a continuous film when applied. Joints >1/4" in exterior sheathing panels (drywall and glass-faced) should be filled with AIR-SHIELD JOINT FILLER and then taped with 2" (51 mm) wide AIR-SHIELD MESH TAPE. For plywood and oriented strand board (OSB), use AIR-SHIELD self-adhesive membrane over all joints.

Details and Protrusions ... Before application of AIR-SHIELD LSR, apply a 6" (152 mm) minimum wide strip [lapped 3" (76 mm) on each side] of AIR-SHIELD self-adhering air/vapor and liquid moisture barrier where joints between dissimilar building materials occur, i.e. details around doors and windows, as well as protrusions.

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

AIR-SHIELD LSR may be sprayed on at the minimum coverage rate of approximately 17-22 ft.²/gal. (80 mils wet) (40 mils dry). Note: For roller applications or during periods of extremely hot weather, two coats (40 mils wet) may be necessary if the material begins to slump. Apply second coat after first coat has completely 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.

Curing and Drying ... Allow material to dry 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 thicknesses. Actual times may differ, depending on specific conditions present on job at time of application. It is recommended that AIR-SHIELD LSR be allowed to air dry to a tack-free film before application of specified insulation. Maximum exposure time for AIR-SHIELD LSR is four months.



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.

Tack-free film: 2 hours

Full cure: 48 hours

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

PRECAUTIONS

AIR-SHIELD LSR is not designed to perform as a permanently exposed membrane. Maximum UV exposure period for membrane is four months. Keep containers tightly sealed. KEEP FROM FREEZING. Do not apply AIR-SHIELD LSR if rainfall is forecast within 12 hours. Do not apply AIR-SHIELD LSR when air, material, and surface temperatures are expected to fall below 32° F (0° C) within 24 hours of completed application.

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.

LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction IAQ Management Plan: During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

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