



## DATA SHEET NO. 6391-000

### 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/vapour 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/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 LSR is suitable for both new construction and restoration. Primary applications include cavity wall and masonry wall construction. AIR-SHIELD LSR is designed as an air 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

- Non-asphaltic – designed to meet stringent fire codes requirements.
- 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 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
- Produces no harmful odours.
- Compatible with asphalt-based emulsion products.
- UV resistant – membrane can be left exposed up to four months.

#### PACKAGING

- 18.93 Litre (5 Gallon) Pails
- 208.20 Litre (55 Gallon) Drums

#### COVERAGE

**Application Rate** 1.59 - 2.05 m<sup>2</sup>/3.8 L (17 - 22 ft.<sup>2</sup>/gal.)  
**Wet Film Thickness** 75 mils  
**Cured Film Thickness** 40 mils (1 mm)  
Coverage dependant on substrate type, weather, and application conditions.

#### SHELF LIFE

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

#### SPECIFICATIONS/STANDARDS

- ASTM E 84, Class A
- Exceeds ABAA maximum material air permeance requirements when tested in accordance with ASTM E2178.
- CAN/ULC-S102
- CAN/ULC-S102.2
- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations

TECHNICAL DATA	
Solids Content, %:	56
Colour:	Sprays Pink Dries to Desert Tan
Crack Bridging per ASTM C1305	PASS
Tensile Strength, PSI (MPa)	250 (1.72)
Elongation (ASTM D412), %:	700
Adhesion to Exterior Gypsum Sheathing, CMU, Concrete or Exterior Grade Plywood (ASTM D4541 modified per ABAA requirements)	>16 psi (0.11 MPa)
Water Vapor Permeance (ASTM E 96, Procedure A) Perms:	0.1
Service Temperature:	Not to exceed 80° C
Nail Sealability (ASTM D1970):	Pass
Mold and Fungus Resistance ASTM D3273, ASTM D3274, ASTM D5590	Pass
Storage and Application Temperature of AIR-SHIELD LSR	4° - 32° C
Air/Substrate Temperature (At Time of Application):	>-6.7° C

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## Air Leakage

Test Method	ASTM E 2178-01	ASTM E 2357
Pressure:	75 Pa (1.57 lb./ft. <sup>2</sup> )	75 Pa (1.57 lb./ft. <sup>2</sup> )
ABAA Requirements, maximum:	0.004 cfm/ft. <sup>2</sup> (0.02 L/S/M <sup>2</sup> )	0.04 cfm/ft. <sup>2</sup> (0.2 L/S/M <sup>2</sup> )
AIR-SHIELD LSR Results:	<0.02 L/S/M <sup>2</sup> (<0.004 cfm/ft. <sup>2</sup> )	<0.2 L/S/M <sup>2</sup> (<0.04 cfm/ft. <sup>2</sup> )

\*Independent test available upon request. AIR-SHIELD LSR may be used in NFPA 285 complying wall assemblies. Contact W. R. MEADOWS for further information.

## APPLICATION

**Surface Preparation** ... All surfaces must be clean (free of all coatings and curing compounds), structurally sound, frost-free, 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. For detailed application information, see INSTALLATION INSTRUCTIONS: JOINT TREATMENT OF EXTERIOR SHEATHING PANELS available at [www.wrmeadows.com](http://www.wrmeadows.com).

**Rough Openings** ... Refer to AIR-SHIELD ROUGH OPENINGS INSTALLATION GUIDELINES document available at [www.wrmeadows.com](http://www.wrmeadows.com) for recommendations.

**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.

**Temperature/Conditions** ... Drying (curing) times are dependent on air temperature, airflow, relative humidity, substrate temperature, wind chill, dew point, etc. For example, as the temperature decreases or the humidity increases, the dry time will increase. If the temperature drops below 4.5° C, dry time (cure rate) and resistance to precipitation and dew will be delayed. Protect membrane from precipitation and washout prior to drying. Exposure to air temperatures/wind chills below -6.6° C during drying may lead to cracking and decrease of performance of AIR-SHIELD LSR.

Typical Dry Times:

Tack-Free Time: 4 hours at 75° F (23.5° C) & 50% RH

Dry Time: 48 hours at 75° F (23.5° C)

**Application Method** ... AIR-SHIELD LSR may be applied by spraying or a 19.1 mm (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 0.42 - 0.54 m<sup>2</sup>/L (17 - 22 ft.<sup>2</sup>/gal.) (75 mils wet) (40 mils dry). Note: For roller applications or during periods of extremely hot weather, two coats 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 -6.7° 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.

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 or by mechanical means.

## LIMITATIONS/PRECAUTIONS

DO NOT FREEZE. Keep containers tightly sealed. Maximum UV exposure period is four months. It is recommended that the roof is installed prior to the application of AIR-SHIELD LSR. This will help avoid water from getting behind the backup wall or filling the CMU block, which can potentially lead to jobsite concerns. Do not apply AIR-SHIELD LSR if precipitation is forecast or imminent within 24 hours at 23.5° C and 50% RH of 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.

## 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.

## MASTERFORMAT NUMBER AND TITLE

07 27 26 – Fluid-Applied Membrane Air Barriers

2026-01-29

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