



DATA SHEET NO. 6391-000

AIR-SHIELD™ LSR
Liquid Membrane Air/Vapour 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.

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.

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.
• 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 m²/3.8 L (17 - 22 ft.²/gal.)

W. R. MEADOWS® OF CANADA

70 Hannant Court, Milton, ON L9T 5C1
38 Rayborn Crescent, St. Albert, AB T8N 4B1
(800) 342-5976
Montreal Sales: (877) 405-5186

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

- 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

Table with 2 columns: Property and Value. Rows include Solids Content, Colour, Flexibility, Tensile Strength, Elongation, Water Vapor Permeance, Service Temperature, Nail Sealability, and Storage and Application.

Air Leakage

Table with 3 columns: Test Method, ASTM E 2178-01, and ASTM E 2357. Rows include Pressure, ABAA Requirements, and AIR-SHIELD LSR Results.

\*Independent test available upon request

Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX
Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON
St. Albert, AB
www.wrmeadows.com

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 and Protrusions** ... Refer to AIR-SHIELD ROUGH OPENINGS INSTALLATION GUIDELINES document available at [www.wrmeadows.com](http://www.wrmeadows.com) for recommendations on protrusions and rough openings.

**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 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.

## 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 or snow is forecast within 12 hours.

## 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

## LEED INFORMATION

May help contribute to LEED credits:

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

For most recent data sheet, further LEED information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

2016-11-23



© SEALTIGHT is a registered trade mark of W. R. Meadows

**WARRANTY:** W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.