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AIR-SHIELD™ TMP

Liquid Membrane Thin Film Permeable Air Barrier

DESCRIPTION

AIR-SHIELD TMP is a water-based air/liquid moisture barrier that cures to form a tough, seamless, elastomeric membrane. AIR-SHIELD TMP exhibits excellent resistance to air leakage. When properly applied as a drainage plane, AIR-SHIELD TMP prohibits liquid water intrusion into the substrate.

USES

AIR-SHIELD TMP has been specifically formulated to act as an air and liquid moisture barrier, allowing vapor to pass through it. It may be applied to most common surfaces and integrated into various wall systems. AIR-SHIELD TMP is suitable for both new construction and retrofit applications.

FEATURES/BENEFITS

- High permeability - allows the transmission of moisture vapor through porous building materials.
- Highly flexible - bridges cracks, which may form in the substrate.
- UV resistant.
- 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.

PACKAGING

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

COVERAGE

Plywood	150 ft. ² /gal. (3.7 m ² /L)
Exterior Gypsum Sheathing	150 ft. ² /gal. (3.7 m ² /L)
CMU Substrate	75 ft. ² /gal. (1.8 m ² /L)
Wet Film Thickness	10 Mils
Cured Film Thickness	6 Mils

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

SHELF LIFE

When stored indoors and in original, unopened containers at temperatures between 40 - 90° F (4 - 32° C), shelf life is a minimum of one year from date of manufacture.

SPECIFICATIONS

- ASTM E2178
- 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, %:	58
VOC Content, g/L:	90
Color:	Green
Flexibility @ -26° C (-15° F), ASTM C 836:	PASS
Elongation (ASTM D 412), %:	1000
Water Vapor Permeance (ASTM E 96, Procedure B) Perms:	>15
Service Temperature:	Not to exceed 175° F (80° C)
Nail Sealability (ASTM D 1970):	Pass
Storage and Application Temperature	
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	0.004 cfm/ft. ² (0.02 L/S/M ²)
AIR-SHIELD TMP 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), free of frost, structurally sound, and relatively smooth. Prepare substrate per manufacturer's instruction prior to membrane application.

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.

Rough Openings and Protrusions ... Refer to application details at wrmeadows.com for recommendations on protrusions and rough openings.

Concrete Masonry Units ... Before applying AIR-SHIELD TMP to CMU surfaces, patch all cracks, protrusions, small voids, offsets, details, irregularities, and small deformities with MEADOW-PATCH® 5 or MEADOW-PATCH 20 at least two hours before application. All mortar joints should be full and struck flush with the face of the CMU.

Temperature/Conditions ... Apply AIR-SHIELD TMP at air and surface temperatures of 35° F (1.7° C) and higher. Curing/drying times are dependent on air temperature, airflow, relative humidity, substrate temperature, etc., specific to each individual application. Typical results are:

Tack-Free Time: 2 hours
Full Cure: 48 hours

Roller ... AIR-SHIELD TMP can be applied directly from the container; a ¾" (19.1 mm) nap roller is recommended. Apply AIR-SHIELD TMP on a vertical surface, in multiple coats if necessary, to achieve a final film thickness of 10 mils wet (6 mils dry). NOTE: While the proper film thickness may be achieved with a single coat, multiple coats may be necessary if the material slumps due to temperature and/or substrate conditions. Allow each previous coat to dry (approximately one hour) prior to applying the next coat.

Sprayer ... AIR-SHIELD TMP should be stored and maintained at a temperature of 40° F (4.4° C) or higher throughout the entire spray application. The product will become thick and difficult to spray at temperatures below 60° F (15.6° C). Note: Use of Graco HydraMax 350 or Graco GH833 is recommended for optimum performance. A Graco heavy duty texture gun with either a 0.051"



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.

(Graco GHD 551), 0.035" (Graco GHD 535), or 0.037" (Graco GHD 537) spray tip is recommended. If cratering occurs, the GHD 535 or 537 is recommended for a smoother finish. Spray AIR-SHIELD TMP on a vertical surface, in multiple coats if necessary, to achieve a final film thickness of 10 mils wet (6 mils dry). NOTE: While the proper film thickness may be achieved with a single coat, multiple coats may be necessary if the material slumps due to temperature and/or substrate conditions. Allow each previous coat to dry (approximately one hour) prior to applying the next coat. Porous substrates, masonry blocks, etc., may require multiple coats to achieve recommended film thickness.

Cleanup ... Material should not be left in the pump, lines, or gun when finished spraying. After spraying, flush water through the system until pump and hose are clear (approximately five gallons). Aromatic solvents, such as xylene or toluene (approximately two gallons), can be used for final flushing after water is flushed through the pump and lines. Water should be flushed through the machine to remove any solvent prior to spraying of AIR-SHIELD TMP.

PRECAUTIONS

DO NOT FREEZE. Keep containers tightly sealed. Do not apply AIR-SHIELD TMP if rainfall is forecast or imminent within 12 hours of application. Do not apply AIR-SHIELD TMP when temperatures are expected to fall below 32° F (0° C) within 24 hours of the completed application.

HEALTH AND SAFETY

Direct contact may result in mild irritation to the skin and eyes. Should adverse effects occur, remove subject from area immediately. If irritation occurs and persists, move victim from exposure source and treat symptomatically. Flush affected areas with mild soap and water. Refer to Material Safety Data Sheet for complete health and safety information.

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 4.2: Low-Emitting Materials: Paints & Coatings
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For further LEED information and MSDS, visit www.wrmeadows.com.