



DATA SHEET NO. 6384-000

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 vapour 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 vapour through porous building materials.
- Highly flexible - bridges cracks, which may form in the substrate.
- UV resistant - can be left exposed up to six months.
- User friendly – single-component, water-based technology allows for simple, safe application and easy clean up.
- 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.

PACKAGING

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

COVERAGE

| | |
|---------------------------|---|
| Plywood | 2.45 m ² /L (100 ft. ² /gal.) |
| Exterior Gypsum Sheathing | 2.45 m ² /L (100 ft. ² /gal.) |
| Wet Film Thickness | 10 - 31 Mills |
| Cured Film Thickness | 6 - 18 Mills |
| CMU Substrate | 1.47 m ² /L (60 ft. ² /gal.) |
| Wet Film Thickness | 20 - 41 Mills |
| Cured Film Thickness | 12 - 24 Mills |

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

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 40° - 90° F (4° - 32° C), optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS

- Meet requirements of 2015 National Building Code for Air Barriers
- ASTM E84, Class A
- ASTM E2178
- ASTM E2357
- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations

TECHNICAL DATA

| | |
|--|---------------------|
| Solids Content, %: | 58 |
| Colour: | Green |
| Flexibility @ -26° C, ASTM C 836: | PASS |
| Elongation (ASTM D412), %: | 1000 |
| Water Vapor Permeance (ASTM E 96, Procedure B) Perms: | >15 |
| Service Temperature: | Not to exceed 80° C |
| Nail Sealability (ASTM D1970): | Pass |
| Storage Temperature | 4° - 32° C |
| Air/Substrate Temperature (At Time of Application): | -6.7° C |

Air Leakage

| Test Method | ASTM E2178-01 | ASTM 2357 |
|----------------------------|---|---|
| Pressure: | 75 Pa (1.57 lb./ft. ²) | 75 Pa (1.57 lb./ft. ²) |
| ABAA Requirements | 0.02 L/S/M ² (0.004 cfm/ft. ²) | 0.2 L/S/M ² (0.04 cfm/ft. ²) |
| AIR-SHIELD TMP Results: | <0.02 L/S/M ² (0.004 cfm/ft. ²) | <0.2 L/S/M ² (0.04 cfm/ft. ²) |

*Independent test available upon request

AIR-SHIELD TMP may be used in NFPA 285 complying wall assemblies. Contact W. R. MEADOWS for further information.

Continued over ...

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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 TMP available at www.wrmeadows.com. For joint treatment in plywood and OSB sheathing, please see PLYWOOD SHEATHING JOINT DETAIL INSTALLATION GUIDELINES also available at www.wrmeadows.com.

Rough Openings ... Refer to AIR-SHIELD ROUGH OPENING INSTALLATION GUIDELINES at wrmeadows.com for recommendations.

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 -6.7° C and higher. Curing/drying times are dependent on air temperature, airflow, relative humidity, substrate temperature, etc., specific to each individual application. Typical results at 21.1° C:

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

Roller ... AIR-SHIELD TMP can be applied directly from the container; a 19.1 mm (¾") 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 4.4° C or higher throughout the entire spray application. 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" (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 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 3.78 L (5 gal.)] Aromatic solvents, such as xylene or toluene [approximately 7.6 L (2 gal.)], 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.

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 Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

07 27 26 - Fluid-Applied Membrane Air Barriers

LEED INFORMATION

May help contribute to LEED credits:

- EAp2: Minimum Energy Performance
- EAc2: Optimize Energy Performance
- MRc9: Construction and Demolition Waste Management
- EQc2: Low-Emitting Materials [For Healthcare and Schools (exterior-applied products) ONLY]

For BIM models, CAD details, most recent data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

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