

PRODUCT DATA SHEET

Old Mill Weather Barrier

*Vapor Permeable Air/Water-Resistive Barrier Membrane***COLOR**

Magenta / Red

PACKAGING

5-gal (19 L) pails

DENSITY/WEIGHT

60 lb (27 kg) per pail

COVERAGE PER PAILASTM C1177 Type Sheathing
525 ft² (48 m²) at 12 mils WFT**APPROVED SUBSTRATES****Cement Board**575 ft² (53 m²) at 12 mils WFT**Plywood**295 ft² (27 m²) at 24 mils WFT**Oriented Strand Board (OSB)**295 ft² (27 m²) at 24 mils WFT**Concrete Masonry Units (CMU)**Standard Weight 265 ft² (24 m²) at
24 mils WFTMedium Weight 180 ft² (17 m²) at
24 mils WFTLight Weight 125 ft² (12 m²) at 24 mils
WFT**Poured Concrete**575 ft² (46 m²) at 12 mils WFT**Ceramic/Porcelain Tile**Brick Masonry
Natural Stone**VOC**

≤ 10 g/L; <1% by weight

SHELF LIFETwo (2) years, properly stored in original
containers**STORAGE**40–90 °F (4–32 °C), protect from freezing,
heat, and sun.**DESCRIPTION**

Old Mill Weather Barrier™ is a one-component, high-quality, 100% acrylic, elastomeric, fluid-applied air and water barrier (AWB). It is roller-, spray-, trowel-, or brush-applied to form a continuous, fully adhered membrane that reduces air leakage, resists bulk water intrusion, and protects approved substrates from incidental moisture. Use as the primary WRB/air barrier behind claddings including thin brick veneers (e.g., Old Mill Panel+), stucco/CI, stone, tile, fiber cement, metal panels, and rainscreens.

USES

Old Mill Weather Barrier forms a continuous air and water barrier that protects approved substrates from incidental water damage.

For use over the following exterior wall substrates:

Poured concrete/unit masonry; ASTM C1177 type sheathings, including DensGlass™ or DensElement exterior sheathing (sheathing only), eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; cement-boards (ASTM C1325 Type A Exterior) including PermaBase™ cement-board: untreated Exposure I or exterior plywood sheathing (grade C-D or better), untreated Exposure I OSB, Zip Sheathing (sheathing only); Fire Treated wood sheathing: Pyro-Guard® and Dricon® plywood and FlameBlock® OSB; gypsum sheathing (ASTM C79/ASTM C1396).

Material component of the **Panel+ Wall System™** for walls above grade - Sheathing joint treatment and rough-opening flashing (with approved reinforcing).

ADVANTAGES

100% coverage; fully adhered; no billowing, tearing, or rattling

Vapor permeable (Class III) with very low air permeance

Nonflammable as applied.

Will not dry out or crack due to loss of oil/plasticizer over time.

Fast roller/spray production; easy water clean-up

UV/exposure tolerant prior to cladding (see Limitations/Exposure)

Low temperature performance down to 25°F (-4°C).

Cold-weather application path available (down to 25 °F with special procedure)

COVERAGE (Reference at 15 mil WFT / ~10 mil DFT on smooth, primed surfaces)

METHOD OF APPLICATION	TYPICAL COVERAGE per 5 gal (sf)	TYPICAL COVERAGE per 5 gal (sm)
Roller	450-500	42-46
Airless Spray	300-350	28-32.5
Trowel	200-250	18-23

Notes: Coverage varies by substrate porosity/texture, detailing, and crew technique. Highly absorptive surfaces (OSB, CMU) typically require a second coat. Always confirm with a field mock-up and wet-film checks.

Wet/Dry Film Guidance - Standard build: 15 mil WFT target, verify ≥ 10 mil DFT continuous - Medium build: 20–30 mil WFT (multi-coat) - High build / porous CMU: 40–60 mil WFT in multiple lifts to achieve a pinhole-free surface.

TECHNICAL INFORMATION

TEST	METHOD	RESULT
Air Permeance (material)	ASTM E2178	≤ 0.001 cfm/ft ² @ 1.57 psf
Air Leakage (assembly)	ASTM E2357	~ 0.0006 cfm/ft ² @ 1.57 psf; ~ 0.04 @ 6.24 psf
Water Penetration	ASTM E331/AC212	Pass
Hydrostatic Pressure	AATCC 127/AC212	Pass
Vapor Transmission	ASTM E96 Proc B	~ 30 perms @ 10 mil; ~ 15 perms @ 20 mil
Freeze–Thaw	ASTM E2485/AC212	Pass
Water Resistance of Coating in 100% R.H	ASTM D 2247/AC212	Pass
Structural/Racking	ASTM E1233 / E72	Pass
Nail Sealability	ASTM D1970	Pass @ ~ 22 mil
Surface Burning	ASTM E84	FS < 25; SD < 450
NFPA 285 (assembly)	NFPA 285/UBC 26-9	Pass (assembly-specific)
Heat/Smoke Release	ASTM E1354	Peak HRR ~ 32 kW/m ² ; THR ~ 3.6 MJ/m ²

APPROVALS & COMPLIANCE

- Conforms to IBC/IRC WRB & air barrier material intent for standalone or Panel+ Wall System use when installed per this TDS.
- Tested per AC212 for liquid-applied WRBs (see Testing).
- NFPA 285 performance is assembly-specific; see Legal/Fire Notice.
- Low-VOC; complies with most regional VOC regulations.

BASIS OF PRODUCT DATA

This TDS reflects Old Mill Building Products' testing and in-field performance. Values shown are typical and not guaranteed; project-specific results depend on substrate, film build, and conditions. Formal test reports are available upon request.

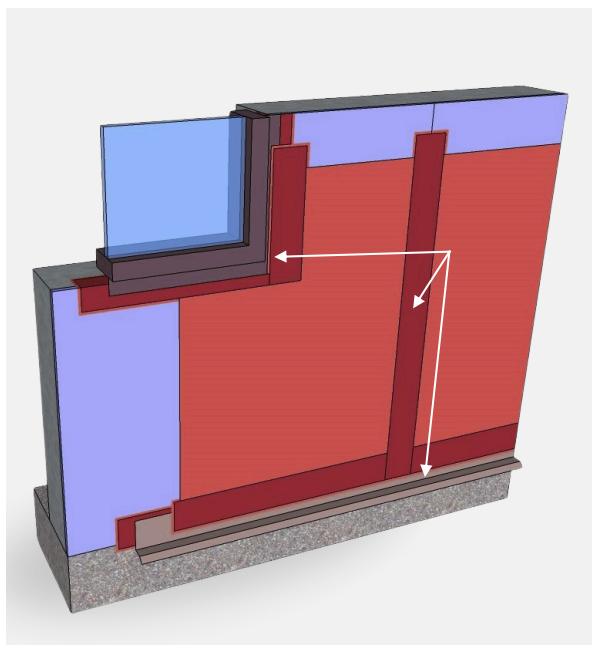
LIMITATIONS

- Not an exterior finish; must be covered by cladding within allowed exposure window.
- Do not apply over standing water, saturated/frozen surfaces, or where rain is imminent within cure window.
- Observe dew point: substrate temp $\geq 5^{\circ}\text{F}$ (3°C) above dew point during application/cure.
- Cold weather: Standard install $\geq 40^{\circ}\text{F}$ (5°C); optional path to 25°F (-3.8°C) only when following Cold-Weather Instructions herein.
- Fire-retardant/pressure-treated wood must be dry; verify adhesion.
- Provide slip sheet (e.g., building paper) between AWB and stucco/adhered stone over metal lath. Painted or chalky surfaces require removal or approved adhesion testing/primer.

HEALTH & SAFETY

- Non-hazardous per OSHA HCS (29 CFR 1910.1200); may cause eye/skin/respiratory irritation.
- PPE: safety glasses, gloves, protective clothing; respiratory protection if spray mist or dusts from prep are present.
- First Aid: flush eyes/skin with water; move to fresh air if inhaled; do not induce vomiting if ingested; seek medical advice.
- Keep from freezing. Keep out of reach of children. For industrial/professional use only.

Refer to current Safety Data Sheet (SDS).



APPROVED SUBSTRATES

- Exterior gypsum sheathing (ASTM C1396) and glass-mat gypsum (ASTM C1177) • Cement board (ASTM C1325).
- Exterior plywood, OSB (gap/condition per manufacturer).
- CMU/block and cast-in-place concrete (28-day cure; free of release agents).
- Brick/masonry (flush joints recommended); select metals and PVC.

SURFACE PREPARATION

- Substrates must be clean, dry, sound, and free of dust, oil, curing agents, efflorescence, and bond-breakers.
- Sheathing gaps $\leq 1/4"$ (6 mm). Treat larger gaps per Old Mill details.
- Concrete: 28-day cure; remove release agents/curing compounds; rinse neutralized acids thoroughly.
- Plane irregularities $> 1/4"$ in 10' must be corrected.

MIXING

- Pre-condition to $65\text{--}75^{\circ}\text{F}$ ($18\text{--}24^{\circ}\text{C}$) in cold weather
- Stir to a uniform, lump-free consistency; do not thin with water or add accelerators/retarders.

APPLICATION

Environmental Conditions - Standard: Apply and cure $\geq 40^{\circ}\text{F}$ (5°C) for 24 hours - Cold-Weather Option: Apply down to 25°F (-3.8°C) when all special steps are followed (pre-condition pails, frost-free/dry substrate, ≤ 15 mil WFT lifts, $\leq 50\%$ RH, dry weather ≥ 24 h)

Joint & Fastener Treatment

1. Knife a thin layer of Old Mill Weather Barrier over joints/fasteners.
2. Immediately embed approved reinforcing (Old Mill Poly-Laminate mesh or flashing tape) and trowel smooth.
3. Spot fasteners. Allow to dry.

Rough Openings (ROs) - Flash sills, jambs, and heads with liquid-applied barrier and reinforcing tape/mesh, integrating with WRB shingle-fashion. Tool to shed water.

Field Application - Roller: $3/4"$ (19 mm) nap; apply 15 mil WFT per coat; back-roll to uniform film

Airless Spray: Remove filters; min 1 gpm, $3/8"$ hose, 0.027–0.031 tip, ≥ 2000 psi at gun; spray & back-roll.

Trowel/Brush: Force into pores/voids; strike smooth - Coats: OSB and absorptive substrates: 2 coats minimum; CMU: multiple lifts to achieve a pinhole-free film.

Curing & Recoat: Dry-to-touch: ~ 1 h; Recoat: ~ 2 h; Through-dry: ~ 12 h at $70^{\circ}\text{F}/50\%$ RH (longer in cool/humid conditions).

Wet-Film Quality Control: Check WFT each lift with a wet-film gauge (target 15 mil). Address pinholes, holidays, and thin spots before proceeding.

Clean-Up: Soap and water while wet. Protect adjacent surfaces; mask as needed.

EQUIPMENT

Airless spray as noted above; Hopper gun 3/16–1/4" orifice at 23–25 psi for texture/trowel assist.

RELATED SYSTEM COMPONENTS (ACCESSORIES)

Old Mill Poly-Laminate Joint Fabric — lightweight, thermally set polyester mat woven from 100% continuous filaments and cross-reinforced with a 2.67 × 2.67 yarn grid. Designed to pair with Old Mill Weather Barrier to bridge sheathing seams, inside/outside corners, and rough openings for a monolithic, tear-resistant membrane.

Old Mill Seam Tape — self-adhered polyester-faced flashing/seam tape for joints, seams, and openings; 6-week UV exposure rating; low permeance (~0.1 perm, ASTM E96); nail sealability (ASTM D1970) pass; typical thickness ~30 mil. Refer to the Old Mill Seam Tape Product Data Sheet for detailed installation. — self-adhered polyester-faced flashing/seam tape for joints, seams, and openings; 6-week UV exposure rating; low permeance (~0.1 perm, ASTM E96); nail sealability (ASTM D1970) pass; typical thickness ~30 mil. Refer to the Old Mill Seam Tape Product Data Sheet for detailed installation.

APPLICATION EXAMPLES/SYSTEM INTEGRATIONS

Behind Old Mill Panel+ Wall System: follow this TDS for AWB; observe 30-day exposure limit before panel install; integrate flashings; provide slip sheet under stucco/stone over metal lath.

CI/Rainscreen walls: provide ventilation/drainage gap; maintain WRB continuity at transitions.

QUALITY ASSURANCE / FIELD QC

- Pre-installation conference and on-wall mock-up (include joints, RO, and cladding attachment penetrations)
- Verify adhesion by simple field pull checks at each substrate type
- Document WFT readings, cure times, and weather conditions daily

LEGAL DISCLAIMER & FIRE CODE NOTICE

Information herein is believed accurate as of publication and provided for guidance only. Old Mill Building Products does not control field conditions and assumes no responsibility for workmanship, design, or improper use. NFPA 285 performance is assembly-level; compliance requires constructing the exact tested or an engineering-judged equivalent wall assembly. Always follow applicable codes (IBC/IRC/IECC) and standards.

WARRANTY

Duration

- Standalone (product-only): Limited 5-year material warranty for Old Mill Weather Barrier™ when used as an individual product and installed per this TDS and Old Mill specifications.
- Full System: Limited 15-year warranty when Old Mill Weather Barrier™ is installed as part of the complete Panel+ Wall System™ by Old Mill Building Products.

Conditions & Registration

- Install, detail, and maintain strictly per this TDS and Old Mill instructions.
- Registration/Application: Submit the Old Mill Building Products Warranty Application (Exhibit A) within 90 days of completed installation.
- Claims: Notify Old Mill of any alleged defect within 30 days of discovery; allow inspection and provide documentation.

System Coverage Requirements (Panel+ Wall System)

Use of the complete Old Mill Panel+ Wall System is required for 15-year coverage, including: (1) Old Mill Air & Water Barrier Liquid (this product) with joint tape and joint fabric; (2) Old Mill Adhesive; (3) Old Mill anchorage materials (Plastic 2" washers, screws, etc.) per instructions; (4) Panel+ Insulation Board; and (5) Brick/Stone/Tile procured through Old Mill.

Exclusions (summary)

Abuse, misuse, improper maintenance; structural defects or building movement; unauthorized alterations; component substitutions or intermixing with unapproved materials; and damage from external causes (e.g., impacts, fire, floods, pests, corrosives, or other natural events). Refer to the current Old Mill Panel+ Wall System Warranty for the complete list of exclusions, sole remedy, limitation of liability, and governing law.

For full terms and to request warranty registration, contact Old Mill Building Products or visit OldMillBuildingProducts.com.

TECHNICAL SUPPORT

Tech Services: 1-888-264-6455
Web: oldmillbuildingproducts.com
Manufactured in the USA

REVISION HISTORY

Version: v2025-08-20 (supersedes prior editions). Data subject to change without notice.