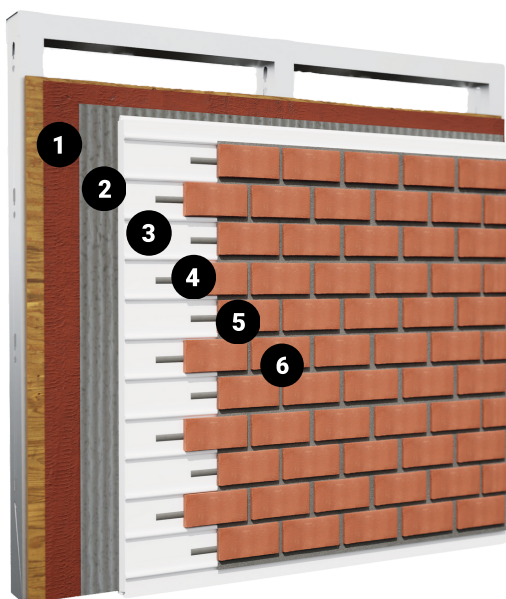


PANEL+™ WALL SYSTEM

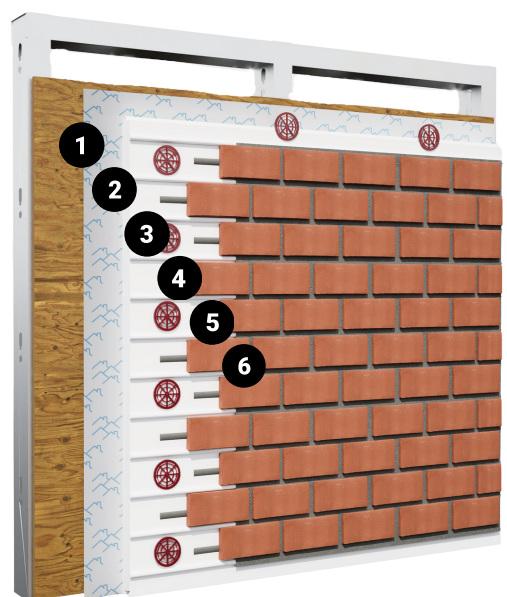
Technical Data Sheets

Fluid-Applied Adhesive Method



- 1 OM Weather Barrier
- 2 OM Adhesive
- 3 EPS Insulation Board
- 4 OM Adhesive
- 5 OM Adhered Veneer
- 6 Type S Pointing Mortar

Mechanically Fastened Method



- 1 Stucco Wrap (Tyvek)
- 2 EPS Insulation Board
- 3 OM 2" Fasteners
- 4 OM Adhesive
- 5 OM Adhered Veneer
- 6 Type S Pointing Mortar

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03 PANEL+ Wall System

An innovative insulated masonry veneer system combining continuous insulation, an air and water barrier, and precise veneer alignment. Designed for thin brick, stone, or tile finishes, Panel+ reduces labor up to 60% and boosts energy efficiency by as much as 40%.

06 OM Weather Barrier

A fluid-applied, acrylic-based air and water resistive barrier that forms a seamless shield against leaks and drafts. It bridges cracks, resists UV exposure, and keeps walls dry while remaining vapor-permeable.

10 OM Adhesive Mix

A polymer-modified cementitious adhesive supplied as a dry mix—just add water. It delivers exceptional bond strength, flexibility, and durability for securing EPS foam panels to approved substrates.

14 OM EPS Foam Panels

Lightweight, precision-molded panels that provide continuous insulation and built-in drainage channels. With R-4.2 to R-4.8 per inch, they ensure energy efficiency, veneer alignment, and job-site labor savings.

19 MasonGrip Adhesive

A professional-grade MS Polymer adhesive with instant grab strength for thin brick, stone, and tile. VOC-free and weatherproof, it bonds securely to multiple substrates—even overhead—for long-lasting performance.

Other Products in System

Joint Fabric- A polyester-reinforced fabric designed to embed into the Weather Barrier at seams, corners, and openings. It provides tear resistance, crack bridging, and long-term envelope durability

Fasteners- Specialized 2-inch polymer-based washer fasteners secure EPS panels without crushing the foam. Their open-grid design locks into the base coat, ensuring strong adhesion and stable panel placement

Seam Tape- A self-adhered polyester-faced flashing and seam tape for joints and openings. It seals sheathing seams, resists UV exposure, and enhances the continuity of the Weather Barrier system

PRODUCT DATA SHEET

PANEL+ Wall System

Insulated Masonry Veneer Wall System

USES

Adhered Thin Brick, Stone, or Tile Veneer over commercial, residential, and institutional exterior wall assemblies—new construction or retrofit. Select fluid-applied when a continuous AWB is required as part of the enclosure; select mechanically fastened when direct fastening to framing/sheathing and a drainable wrap are preferred.

Continuous Insulation (CI) + Substrate for adhered veneers, delivering thermal performance (e.g., R-4.2/in @ 75°F for Type II EPS) and a precision, level base for veneer coursing.

APPROVED SUBSTRATES

PermaBase® Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including Weather Defense™ Platinum sheathing, GreenGlass® sheathing, eXPTM sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing; DensElement (sheathing only), gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB; Huber Zip (sheathing only).

PROJECT TYPES

Exterior and Interior application. Rain screen or direct-applied adhered veneer façades; envelope upgrades where air/water control, drainage, and CI are required alongside thin masonry aesthetics.

DESCRIPTION

Old Mill Panel+ Wall System is an integrated, code-oriented exterior veneer solution that combines a vapor-permeable air/water-resistive barrier (AWB), molded EPS continuous-insulation panels, and a polymer-modified adhesive/basecoat, with accessories and either adhesive or mechanical attachment. The system is engineered to receive thin brick, stone, or tile claddings while controlling air, water, and thermal performance in one coordinated assembly.

Two installation pathways are available to match project constraints and substrates:

- **Fluid-Applied Adhesive** — The AWB is roller/spray/trowel applied to form a continuous membrane; Old Mill Adhesive is then combed to create vertical drainage beads and bond the EPS foam panels, producing a fully laminated CI substrate ready for adhered veneers. This path emphasizes continuity of environmental control layers and speed on solid or nailable sheathing.
- **Mechanically Fastened** — A drainable building wrap is installed behind the EPS foam panels, which are secured with Old Mill washers and corrosion-resistant fasteners to framing/sheathing, providing CI plus a profiled, alignment-true veneer base. This path is suited to framed walls and jobsite conditions favoring mechanical attachment.

Core components deliver system performance: the AWB provides low air leakage with vapor permeability and has been evaluated for NFPA 285 use in compliant assemblies; the EPS panels (ASTM C578, Type II, 15 psi) supply stable long-term R-value with tongue-and-groove alignment and built-in drainage/ventilation; and the adhesive/basecoat supplies bond, reinforcement, and skim-coat capabilities for masonry veneers.

ADVANTAGES

Continuous Insulation & Substrate in One: Replaces separate insulation boards and masonry backer, reducing wall thickness and labor.

Reliable Thermal Efficiency: Stable R-value that will not drift, with R-4.2 per inch

Moisture & Drainage Management: Integral vertical channels promote rapid water egress and ventilation behind cladding.

Fire-Tested Assemblies: Listed NFPA 285 compliant wall assemblies available when combined with Panel+ air/water barrier and joint treatments.

Sustainable Choice: Low-GWP formulation, recyclable EPS core, GREENGUARD Gold certification, and EPD for transparent carbon accounting.

Quality Assurance: Every batch tested to ASTM C578 density, R-value, water absorption, and dimensional stability requirements; UL and ICC-ES oversight.

Qualifies for a 5 or 15 Year System Warranty

TECHNICAL INFORMATION

TEST	METHOD	RESULTS
Fire Propagation Characteristics (Full Exterior Assembly)	NFPA 285-19	Passed / Met Conditions of Acceptance. Flames did not propagate beyond the limits of the first story test room, and critical temperature limits were not exceeded.
Structural Performance (Uniform Static Air Pressure / Wind Load)	ASTM E330	Passed structural test pressure of +/-150.0 psf with no failures
Freeze-Thaw Resistance (System Durability)	ASTM E2485 / E2485M-13 Method A	Passed. No deleterious effects, such as cracking, crazing, blistering, peeling, delamination, or erosion, were observed on the thin brick or stone veneer samples after 60 cycles
Surface Burning Characteristics (Assembly over Drywall)	ASTM E84-08	Flame Spread: 0; Smoke Developed: 0 (OMB System over 1/2" Sheetrock).
Surface Burning Characteristics (Assembly over OSB)	ASTM E84-08	Flame Spread: 0; Smoke Developed: 5 (OMB System over OSB, Tyvek)

WALL ASSEMBLY APPLICABLE STANDARDS

The Panel+ Wall System, when installed as an exterior assembly, is tested against and conforms to the intent of the following standards and building codes for complete wall performance:

NFPA 285-19: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.

ASTM E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

ASTM E2485/E2485M-13: Standard Test Method for Freeze/Thaw Resistance of EIFS and Water Resistive Barrier Coatings.

ASTM E84: Standard Method of Test for Surface Burning Characteristics of Building Materials.

ASTM C1088: Standard Specification for Thin Veneer Brick Units Made from Clay or Shale (applies to the veneer units used in the system).

IBC/IRC WRB & air barrier material intent: The Old Mill Weather Barrier component conforms to this standard intent when installed as part of the Panel+ system.

International Building Code (IBC) Sections 1405.9 and 1405.10: Structural testing was evaluated against the deflection requirements (e.g., L/600) for adhered masonry veneer installations specified in these sections

COMPONENT APPLICABLE STANDARDS

Component Standards (Old Mill Weather Barrier)

- ASTM E2178: Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials.
- ASTM E2357: Determining Air Leakage Rate of Air Barrier Assemblies.
- ASTM E331: Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
- ASTM E96: Standard Test Methods for Water Vapor Transmission of Materials.
- ASTM C297: Standard Test Method for Surface Burning Characteristics of Building Materials.
- ASTM E2134: Evaluating the Tensile-Adhesion Performance of EIFS.
- ASTM D2247: Testing Water Resistance of Coatings in 100% Relative Humidity.

Component Standards (Old Mill Adhesive Mix)

- ANSI A118.4: Standard Specification for Latex-Modified Portland Cement Mortar.
- ASTM C109: Standard Test Method for Compressive Strength of Hydraulic Cement Mortars.
- ASTM C297: Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions.
- CAN/ULCS114: Standard Method of Test for Determination of Non-Combustibility in Building Materials.

Component Standards (Old Mill EPS Foam Panel)

- ASTM C578: Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- ASTM C518: Steady-State Thermal Transmission Properties by Heat Flow Meter Apparatus.
- ASTM D1621: Compressive Properties of Rigid Cellular Plastics.
- ASTM E84: Surface Burning Characteristics of Building Materials.

Component Standards (Thin Brick Veneer Units)

- ASTM C1088: Standard Specification for Thin Veneer Brick Units Made from Clay or Shale.
- ASTM C-67: Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile

APPLICATION

Old Mill PANEL+ can be installed using one of two approved methods, selected based on project requirements, substrate type, and environmental conditions:

1. **Fluid-Applied Adhesive Method** – Recommended for both solid and nailable substrates when a continuous air and water barrier is required as part of the wall assembly. This method integrates Old Mill Air & Water Barrier with Old Mill Adhesive for a fully bonded installation.
2. **Mechanically Fastened Method** – Recommended for applications where panels are secured directly to framing or sheathing using corrosion-resistant fasteners and Old Mill washers. This method incorporates a drainable building wrap behind the panels.

FLUID-APPLIED ADHESIVE

Substrate Preparation

- Solid Substrates (brick, block, concrete, CMU):
 - a. Apply a uniform 10 mil WFT (wet film thickness) coat of Old Mill Air & Water Barrier over the entire wall surface.
 - b. After a minimum of 20 minutes, apply a second 10 mil WFT coat for a total 20 mil coverage.
 - c. Protect from precipitation and freezing; allow a minimum 18-hour cure before panel installation.
- Nailable Substrates (OSB, plywood, exterior gypsum):
 - d. Apply a 10 mil WFT coat of Old Mill Air & Water Barrier.
 - e. Immediately embed Old Mill Polylaminate Reinforcing Fabric at all sheathing joints and outside corners, pressing from center outward with a trowel. Overlap fabric runs by at least 2½ inches.
 - f. After a minimum of 20 minutes, apply an additional 15 mil WFT coat over the entire surface.
 - g. Protect from precipitation and freezing; allow 12–24 hours cure before panel installation.

Panel Installation

1. Begin at an outside corner, ensuring panels overlap at corners. For inside corners, position panels to allow space for a backer rod and sealant.
2. Remove bottom alignment track for the first course if a full row of thin brick is to be installed at base.
3. Apply Old Mill Adhesive to the cured Air & Water Barrier with a ½-inch notch trowel, combing vertically to form moisture drainage channels.
4. Engage tongue-and-groove joints, staggering vertical seams by at least 16 inches.
5. Maintain ¼-inch clearance at window/door openings and flashing interfaces.
6. Cut panels cleanly with a utility knife to fit as required.

TECHNICAL SUPPORT

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

MECHANICALLY FASTENED

Substrate Preparation

- Install a drainable building wrap over the entire wall surface where Old Mill Panel+ will be applied, in accordance with building code and manufacturer's instructions.

Panel Installation

1. Position panel starting at the bottom outside corner, level and flush with the wall base.
2. Secure panels through sheathing into framing members using corrosion-resistant screws with Old Mill 2-inch plastic washers. Fasteners must penetrate framing at least 1 inch beyond the sheathing.
3. Fastener placement:
 - Every 16 inches horizontally along framing members
 - Every 8 inches vertically along panel height
 - Additional fasteners around panel perimeters and at openings
4. Fasteners must be seated so the washer face is flush with the panel surface—do not overdrive.
5. Engage tongue-and-groove joints; stagger vertical seams by at least 16 inches.
6. Maintain ¼-inch clearance at wall penetrations, openings, and flashing transitions.
7. Remove bottom alignment track for the first course if a full row of thin brick is to be installed at base.

WARRANTY

Duration

- Standalone (product-only): Limited 5-year material warranty for Old Mill Adhesive Mix when used as an individual product and installed per this TDS and Old Mill specifications.
- Full System: Limited 15-year warranty when Old Mill Adhesive Mix 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.
- 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 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.

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.

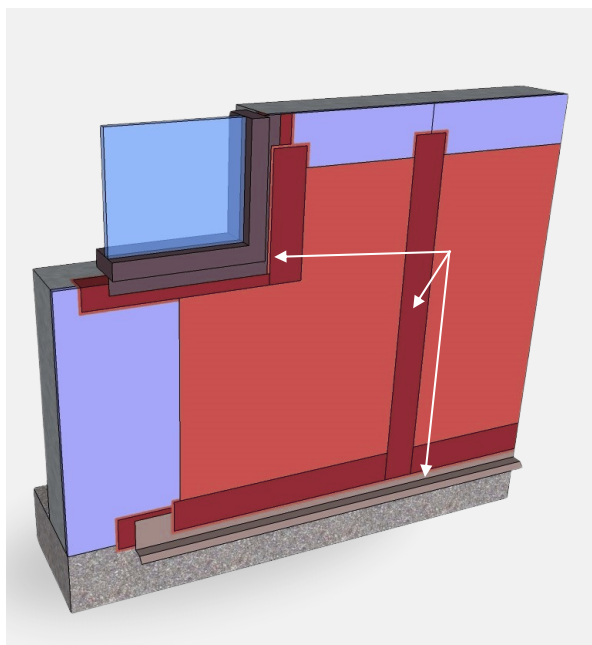
LIMITATIONS

- 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.

PRODUCT DATA SHEET

Old Mill Adhesive Mix

Dry Dual Use Basecoat & Adhesive

PACKAGING

50 lbs (22.7 kg) per bag

COLOR

Grey

APPROVED SUBSTRATES

- Poured/Place Concrete*
- Precast Concrete
- Concrete Masonry Unit (CMU)
- Brick Masonry
- Cement Backer Unit (CBU)
- Cement Mortar Plaster/Scratch Coat
- Ceramic/Porcelain Tile
- Natural Stone
- Exterior Rated Gypsum Sheathing†
- Glass mat gypsum sheathing
- Coated Strand Board (OSB)†
- Gypsum Wallboard/Plaster (interior, dry areas only)
- Exterior Glue Plywood (EGP) (interior, dry areas only)†
- Over Old Mill WeatherSeal Spray & Roll-On and WeatherSeal Trowel-On WG Water Resistive Barrier Coatings

*Note: Release agents must be mechanically removed prior to application.

†Note: Exterior use only when coated with Old Mill Air & Water Barrier.

VOC

0 lbs/gal (0.0 g/l) less water and exempt solvents

SHELF LIFE

12 months when stored off the ground and protected from sun and moisture.

STORAGE

40–90 °F (4–32 °C), protect from freezing, heat, and sun.

DESCRIPTION

Old Mill Adhesive Mix is a dry, pre-blended, polymer-modified, dry, cementitious adhesive and basecoat formulated for adhering Old Mill thin brick, stone, and tile to approved substrates, and for use as a skim coat or basecoat in Old Mill's Panel+ and adhered veneer systems.

Basic Uses / Typical Applications:

- Adhering EPS to cement board, masonry, and over approved WRBs within Old Mill Panel+ systems.
- Skim coating above-grade masonry and concrete substrates.
- Embedding reinforcing mesh in veneer panel systems.

Do not use below grade, in continuous immersion, or directly over wood-based sheathing without an approved intermediary such as cement board.

USES

Old Mill Adhesive Mix is a versatile, high-performance product used for:

- Installing thin adhered masonry veneer, including thin brick, natural stone, manufactured stone, tile, calcium silicate units, and other code-compliant adhered masonry materials.
- Both vertical, horizontal, and overhead applications.
- Adhering Old Mill Panel+ EPS panels to approved substrates.
- Use as an EPS base coat and adhesive.
- Reinforcing mesh embedment as part of wall systems.
- A skim coat over above-grade masonry and concrete substrates

ADVANTAGES

Maximum Adhesion

Water based formula that is safe, non-toxic, and allows for easy clean up with soap and water.

High strength fiber reinforcement.

Dry bag mix - just add water.

Smooth, creamy consistency for easy troweling and reduced installer fatigue.

Lower cement-to-polymer ratio, reduced efflorescence risk.

No heated shipping or storage required.

Can be mixed in small quantities for repairs, reducing waste.

Qualifies for a 5 or 15 year warranty.

COVERAGE

METHOD OF APPLICATION	COVERAGE
(1/2"x2"x1/2" U-Notch)	70 sq. ft.
1/4" x 3/8" Square Notch Trowel	66 sq. ft.
1/2" x 1/2" Square Notch Trowel	40 sq. ft.

METHOD OF APPLICATION	COVERAGE
Backbutter Method	35 sq. ft.
Grout Bag Method	70 sq. ft.

TECHNICAL INFORMATION

TEST	METHOD	RESULTS
VOC	ASTM D3960	0 lbs/gal (0.0 g/l) less water and exempt solvents.
Accelerated Weathering	ASTM G 23	Pass
Accelerated Weathering	ASTM G 53	Pass
Water Vapor Transmission	ASTM E96 Method B	Pass
Surface Burning Characteristics	ASTM E 84	Flame Spread < 25 Smoke Development < 450 (Class A)
Tensile Bond	ASTM C297, E2134	> 15 psi
Water Resistance of Coating in 100% R.H	ASTM D 2247	Pass
Non-Combustibility of building materials	CAN/ULCS114	Pass
Shear Bond Non-Vitreous Tile; 7 Day	ANSI A118.4	> 480 psi
Shear Bond Non-Vitreous Tile; 28 Day	ANSI A118.4	> 550 psi
Shear Bond Porcelain Tile; 7 Day	ANSI A118.4	> 300 psi
Shear Bond Porcelain Tile; 28 Day	ANSI A118.4	> 360 psi
Compressive Strength, Pot Life @ 70°F Adjustability @ 70°F	ASTM C109	>3300 psi 6 Hours 15 Min

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Do not cover over movement joints with mortar
 - Do not use over wood-based substrates.
 - Substrate maximum design deflection of l/360
 - Comply with local building code requirements
 - When temperatures less than 40°F (4°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry. Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
 - Do not apply materials to frozen surfaces.
 - Not for use on damp surfaces, below grade applications or on surfaces subject to water immersion.
 - Do not retemper once mixed. Do not overwater
 - For white and light colored stones, conduct a test area to ensure there is no staining or shadowing.
-

HEALTH & SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

ADMIXTURES

No admixtures of any kind should be used and use of admixtures will void all warranty coverage. Do not add lime, gypsum, other admixtures, or use a container that has held petroleum-based products

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Old Mill Building Products, its subsidiaries or affiliates ("OLD MILL"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at oldmillbuildingproducts.com or by calling at 1-888-264-6455. Nothing contained in any OLD MILL literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each OLD MILL product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the OLD MILL product.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

SURFACE PREPARATION

All surfaces should be dry, structurally sound, clean and free of dirt, dust, efflorescence, grease, oils, sealers, curing compounds, adhesive residues or any contaminant that could impede bond. Glossy surfaces should be mechanically roughened by sanding, shot-blasting, sandblasting or other mechanical means. Existing tile should be abraded to provide for a mechanical bond. Do not proceed with work until the surfaces to be applied to comply with all manufacturer's requirements. Also, clean the backs of the veneer pieces to be installed to the same standard as the substrate. Chip off any protrusions that would impede even setting of the veneer pieces. When used, allow Old Mill Air & Water Barrier to dry overnight (12-24 hours) prior to application of finish.

MIXING

Fill a clean container with approximately 1.4 gal (5.6 L) of water, add Old Mill Adhesive Mix in small increments, mixing thoroughly to a homogeneous consistency after each additional increment. Allow base coat to set for 5 -10 minutes, then remix/retemper before use. Additional base coat or water can be added to adjust workability.

- Do not use a container which has contained or been cleaned with a petroleum-based product.
 - Additives are not permitted.
 - Close container when not in use.
 - Clean tools with soap and water immediately after use. Dried material can only be removed mechanically.
-

APPLICATION

Based on the substrate and type of finish being installed, select from one of the following application methods:

- **Notched Trowel Method**
 - **Backbutter Method**
 - **Grout Bag Method**
 - **Grouting/Pointing (if needed)**
-

NOTCHED TROWEL METHOD

Using the appropriate size notched trowel based on finish piece size, start by keying in a thin coat of mortar into the substrate using the flat edge of the trowel. Then spread more material over the area sufficient to allow combing of the material to the desired size ridges with the notched side of the trowel. Spread only enough mortar that can be covered before skinning over. Apply additional mortar to the back of the finish piece to ensure full coverage when set. Place the veneer piece and adjust to desired position. Clean excess mortar from around the edges and apply to the next piece being set

BACKBUTTER METHOD

Key in a thin layer of mortar to the back of the veneer piece being set. Add mortar to build approximately one half inch of mortar on the back of the piece ensuring the entire space between the veneer and substrate will be filled with mortar. Press the piece to the substrate and slide a bit sideways and back to squeeze out excess mortar all around the veneer being set. Using the trowel scrape the excess mortar from around the piece and apply to the next one.

GROUT BAG METHOD

When setting thin brick into the Old Mill Systems' Panel+ EPS panels, use a grout bag to apply a $\frac{3}{4}$ " bead along the course between alignment ridges. Press the individual thin bricks into the mortar ensuring mortar extrudes out all around the thin brick. Scrape off any excess mortar that extrudes over the alignment ridges and reuse.

GROUTING/POINTING

Allow the veneer to set overnight (12-24 hours) before attempting to point the joints. Using a grout bag filled with Old Mill Colored Pointing Mortar or Type S/N masonry mortar, apply pointing mortar into the joints between the veneer pieces ensuring to fill the full depth of the joint and overfilling the joint beyond the face of the veneer to allow the needed material for compaction into the joint. Allow the pointing mortar to become thumbprint hard and tool as specified. Once dried, brush off crumbs and excess pointing mortar with a stiff bristle brush. Do not use metal brushes for this process.

TECHNICAL SUPPORT

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

REVISION HISTORY

Version: v2025-08-20. Data subject to change without notice.

WARRANTY

Duration

- Standalone (product-only): Limited 5-year material warranty for Old Mill Adhesive Mix when used as an individual product and installed per this TDS and Old Mill specifications.
- Full System: Limited 15-year warranty when Old Mill Adhesive Mix 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.

PRODUCT DATA SHEET

Old Mill EPS Foam Panel

Closed cell, lightweight and resilient expanded polystyrene (EPS).

COLOR	
White	
SIZES	
• 2' x 4' Panels • 4' x 4' Panels • 8' x 4' Panels • Thicknesses from 1"-4" • Custom shapes, thicknesses and sizes also available	
SUSTAINABILITY	
• Zero Ozone Depletion Potential (ODP) • Ultra-low Global Warming Potential (GWP) blowing agent • 100% recyclable material • Long-term stable thermal performance without thermal drift	
COMPREHENSIVE STRENGTH	15 psi
ASTM CLASSIFICATION	Type II
ASTM C578	
R-VALUE PER 1" INCH	
ASTM C518	
at 75°F Mean Temperature	4.2
at 40°F Mean Temperature	4.6
at 25°F Mean Temperature	4.8
FLEXURAL STRENGTH (PSI)	35
ASTM C203	
SURFACE BURNING	
ASTM E84	
Flame Spread Index	<25
Smoke Developed Index	<450
MAXIMUM USE TEMPERATURE	
Short Term (10-15 min)	180°F
Long Term	165°F

DESCRIPTION
Old Mill EPS Foam Panels are precision-molded, closed-cell, rigid expanded polystyrene (EPS) insulation panels manufactured in compliance with ASTM C578, Type II. Designed specifically for integration into the Old Mill Panel+ Wall System, these panels serve as both a continuous insulation (CI) layer and a stable, high-precision substrate for adhered thin brick, stone, and tile veneers.
Each panel delivers a long-term stable R-value, exceptional dimensional stability, and outstanding moisture resistance. The closed-cell structure resists water absorption, minimizes thermal drift, and withstands freeze-thaw cycling, ensuring consistent performance over the life of the building. The manufacturing process incorporates a low Global Warming Potential (GWP) blowing agent and achieves zero Ozone Depletion Potential (ODP), with GREENGUARD Gold certification for indoor air quality and an independently verified Environmental Product Declaration (EPD) for sustainability reporting.
With an interlocking tongue-and-groove profile, Old Mill EPS Foam Panels provide integrated drainage and ventilation channels, precise alignment, and enhanced structural stability. They are suitable for use in residential, commercial, and institutional wall assemblies—above or below grade—and are compliant with applicable building, residential, and energy codes.
USES
• Continuous exterior insulation for adhered masonry veneer systems • Substrate for Old Mill Panel+ thin brick, stone, and tile veneer installations • Above-grade wall insulation in residential and commercial buildings • Below-grade perimeter and foundation wall insulation (non-termite risk zones)

ADVANTAGES
Continuous Insulation & Substrate in One: Replaces separate insulation boards and masonry backer, reducing wall thickness and labor.
Reliable Thermal Efficiency: Stable R-value that will not drift, with R-4.2 per inch
Moisture & Drainage Management: Integral vertical channels promote rapid water egress and ventilation behind cladding.
Fire-Tested Assemblies: Listed NFPA 285 compliant wall assemblies available when combined with Panel+ air/water barrier and joint treatments.
Sustainable Choice: Low-GWP formulation, recyclable EPS core, GREENGUARD Gold certification, and EPD for transparent carbon accounting.
Quality Assurance: Every batch tested to ASTM C578 density, R-value, water absorption, and dimensional stability requirements; UL and ICC-ES oversight.
Qualifies for a 5 or 15 Year System Warranty

TECHNICAL INFORMATION

TEST	METHOD	RESULTS
Compressive Strength @ 10% deformation	ASTM D1621	15 psi (103 kPa)
ASTM Classification	ASTM C578	Type II
R-value per inch @ 75°F mean temp	ASTM C518	4.2
R-value per inch @ 40°F mean temp	ASTM C518	4.6
R-value per inch @ 25°F mean temp	ASTM C518	4.8
Flexural Strength	ASTM C203	35 psi (241 kPa)
Water Absorption (24 hr immersion)	ASTM C272	2.0% by volume
Water Absorption (24 hr immersion + 24 hr @ 50% RH)	ASTM C272	0.3% by volume
Water Vapor Permeance @ 1" thick	ASTM E96	3.5 perms
Surface Burning – Flame Spread Index	ASTM E84 / UL 723	< 25
Surface Burning – Smoke Developed Index	ASTM E84 / UL 723	< 450
Maximum Use Temperature – Short term	—	180°F (82°C)
Maximum Use Temperature – Long term	—	165°F (74°C)
Density	ASTM C303	1.35 pcf (21.6 kg/m ³)
Dimensional Stability	ASTM D2126	Pass
Fungi Resistance	ASTM C1338	Pass

Notes: Old Mill EPS Foam Panel is elastic up to 1% deformation. A safety factor of 3 is recommended for long-term loads to minimize long-term deflection. The R-value information for Old Mill EPS Foam Panels is reported from tests conducted at a mean temperature of 75°F, as required by the FTC's "R-value Rule." R-value testing uses two metal plates, one cold (55°F) and one warm (95°F), to achieve a mean temperature of 75°F. Additional R-values at 25°F and 40°F mean temperatures are also available to assist with design across various climate zones.

APPLICABLE STANDARDS

ASTM C203	ASTM C578	ASTM E96
ASTM C727	ASTM D1621	ICC-ES ESR-1962
ASTM C518	ASTM E84	UL Listings, UL ER16529-01

Recognized for compliance with ASTM C578, ASTM E84/UL723, NFPA 285 Assemblies, International Building Code (IBC), International Residential Code (IRC), and International Energy Conservation Code (IECC).

Evaluated by ICC-ES (ESR-1962) and UL Solutions (UL ER16529-01).

COMPRESSIVE STRENGTH & PERFORMANCE

Old Mill EPS Foam Insulation Panels are engineered for strength, stability, and long-term thermal performance. In applications where insulation supports other building materials—such as roof coverings or adhered veneers—compressive resistance is critical.

What Compressive Resistance Means

Compressive resistance measures how much weight an insulation panel can handle without permanent deformation. It is expressed in pounds per square inch (psi) and tested at 10% strain in accordance with ASTM standards.

When EPS insulation is loaded, it passes through two stages:

1. **Elastic deformation** – Light loads cause slight compression, but the panel returns to its original shape once the load is removed.
2. **Plastic deformation** – Higher loads exceed the material's yield point, causing a permanent change in shape.

Strength Ratings & Load Recommendations

Old Mill EPS panels are manufactured with compressive strengths starting at 15 psi (at 10% deformation), with higher strengths available. To prevent long-term damage, a safety factor of three is applied—meaning sustained loads should be no more than one-third of the rated compressive resistance.

Example:

- Rated compressive strength: 15 psi
- Recommended sustained load: 5 psi ($\approx$ 720 pounds per square foot)

Even at this safe load level, the insulation provides exceptional support while maintaining its insulating properties.

R-VALUE CALCULATION

THICKNESS @ 75°F

R-VALUE PER INCH @ 75°F (MEAN TEMPERATURE)	4.2
R-5	1-5/16 in.
R-7.5	2 in.
R-10	2-9/16 in.
R-15	4 in.

R-VALUE @ 75°F

R-VALUE PER INCH @ 75°F (MEAN TEMPERATURE)	4.2
1 in.	4.2
2 in.	8.4
3 in.	12.6
4 in.	16.8

BASIS OF PRODUCT DATA

Product data is based on laboratory testing, field evaluations, and quality control records for molded expanded polystyrene insulation manufactured in compliance with ASTM C578, Type II. Physical properties are determined through standardized ASTM methods, including ASTM D1621 (compressive strength), ASTM C518 (thermal resistance), ASTM C203 (flexural strength), ASTM C272 (water absorption), ASTM E96 (water vapor permeance), and ASTM E84/UL 723 (surface burning characteristics). Installation guidelines are derived from Old Mill Building Products' field-tested Panel+ System procedures for both fluid-applied adhesive and mechanically fastened applications.

LIMITATIONS

- Old Mill EPS Foam Panels are non-structural insulation components and shall not be used to resist structural loads unless specifically tested and approved as part of an engineered assembly.
- Panels must be protected from prolonged direct UV exposure; cover with cladding or protective wrap as soon as practical after installation.
- Do not expose panels to solvents, fuels, or other chemicals incompatible with EPS.
- Below-grade use is permitted only in non-termite risk zones unless paired with an approved termite-resistant EPS product.
- Not intended for continuous service at temperatures above 165°F (74°C).
- Flammable vapors (pentane) may be released from freshly manufactured EPS; provide adequate ventilation during storage and installation.
- Use only in assemblies meeting code requirements for fire performance, including NFPA 285 where applicable.

INDGREDIENTS DISCLOSURE

Polystyrene: < 97% Flame Retardants¹: < 1%
Pentanes: < 4% Additives: < 1%

Non-Hazardous

¹Product does not contain hexabromocyclododecane (HBCD)

STORAGE & HANDLING

- Store panels on pallets or dunnage at least 3 inches above ground level.
- Protect from prolonged direct sunlight with a weatherproof, breathable covering such as a tarpaulin.
- Slit or remove factory packaging to prevent condensation buildup during storage.
- Replace any panels damaged by impact, deformation, or exposure.
- When stored outdoors, secure materials to prevent wind damage or displacement.
- Panels stored without protection may yellow from UV exposure; this surface oxidation does not affect performance but should be removed before applying coatings or adhesives.
- Keep panels away from open flames, welding, sparks, or high heat sources; EPS is combustible.
- Avoid contact with solvents, petroleum-based products, or other chemicals incompatible with EPS.
- Follow safe handling practices to avoid cuts, punctures, or dust inhalation during cutting or fabrication.

APPLICATION

Old Mill EPS Foam Panels can be installed using one of two approved methods, selected based on project requirements, substrate type, and environmental conditions:

1. **Fluid-Applied Adhesive Method** – Recommended for both solid and nailable substrates when a continuous air and water barrier is required as part of the wall assembly. This method integrates Old Mill Air & Water Barrier with Old Mill Adhesive for a fully bonded installation.
2. **Mechanically Fastened Method** – Recommended for applications where panels are secured directly to framing or sheathing using corrosion-resistant fasteners and Old Mill washers. This method incorporates a drainable building wrap behind the panels.

FLUID-APPLIED ADHESIVE

Substrate Preparation

- Solid Substrates (brick, block, concrete, CMU):
 - a. Apply a uniform 10 mil WFT (wet film thickness) coat of Old Mill Air & Water Barrier over the entire wall surface.
 - b. After a minimum of 20 minutes, apply a second 10 mil WFT coat for a total 20 mil coverage.
 - c. Protect from precipitation and freezing; allow a minimum 18-hour cure before panel installation.
- Nailable Substrates (OSB, plywood, exterior gypsum):
 - d. Apply a 10 mil WFT coat of Old Mill Air & Water Barrier.
 - e. Immediately embed Old Mill Poly laminate Reinforcing Fabric at all sheathing joints and outside corners, pressing from center outward with a trowel. Overlap fabric runs by at least 2½ inches.
 - f. After a minimum of 20 minutes, apply an additional 15 mil WFT coat over the entire surface.
 - g. Protect from precipitation and freezing; allow 12–24 hours cure before panel installation.

Panel Installation

1. Begin at an outside corner, ensuring panels overlap at corners. For inside corners, position panels to allow space for a backer rod and sealant.
2. Remove bottom alignment track for the first course if a full row of thin brick is to be installed at base.
3. Apply Old Mill Adhesive to the cured Air & Water Barrier with a ½-inch notch trowel, combing vertically to form moisture drainage channels.
4. Engage tongue-and-groove joints, staggering vertical seams by at least 16 inches.
5. Maintain ¼-inch clearance at window/door openings and flashing interfaces.
6. Cut panels cleanly with a utility knife to fit as required.

MECHANICALLY FASTENED

Substrate Preparation

- Install a drainable building wrap over the entire wall surface where Old Mill Panel+ will be applied, in accordance with building code and manufacturer's instructions.

Panel Installation

1. Position panel starting at the bottom outside corner, level and flush with the wall base.
2. Secure panels through sheathing into framing members using corrosion-resistant screws with Old Mill 2-inch plastic washers. Fasteners must penetrate framing at least 1 inch beyond the sheathing.
3. Fastener placement:
 - Every 16 inches horizontally along framing members
 - Every 8 inches vertically along panel height
 - Additional fasteners around panel perimeters and at openings
4. Fasteners must be seated so the washer face is flush with the panel surface—do not overdrive.
5. Engage tongue-and-groove joints; stagger vertical seams by at least 16 inches.
6. Maintain ¼-inch clearance at wall penetrations, openings, and flashing transitions.
7. Remove bottom alignment track for the first course if a full row of thin brick is to be installed at base.

SAFETY INFORMATION

Composition: EPS polymer (>97%), pentane blowing agents (<4%), proprietary non-hazardous additives (<1%). No HBCD.

Hazards: Combustible; burning releases toxic vapors. Dust from cutting may cause irritation.

Safe Handling:

- Ventilate during cutting.
- Use PPE (gloves, safety glasses, dust mask).
- Avoid heat, flame, and incompatible chemicals.

First Aid:

- Inhalation: Fresh air; seek medical attention if symptoms persist.
- Skin/Eyes: Wash with water; rinse eyes for 15 minutes.
- Fire: Extinguish with water spray, foam, or CO₂.

PRODUCT DATA SHEET

MasonGrip Adhesive

Instant-Grab MS Polymer Adhesive

COLOR

Gray

PACKAGING

20 oz (600 mL) sausages only

CHEMISTRY

Silane-terminated polymer (MS Polymer)

CONSISTENCY

Non-slump, non-sag paste

COVERAGE (Typical)

~50–52 linear feet per 20 oz sausage with an 8 mm (¼ in) round bead

~16–17 linear meters per 600 mL sausage with an 8 mm bead

*Coverage varies with bead size, substrate profile, and application technique.***WORKING/OPEN TIME**

10–20 minutes (at 73.4 °F / 23 °C, 50% RH)

TYPICAL APPLICATIONS

- Exterior/Interior adhered veneer
- Thin Brick
- Natural/Cultured Stone
- Tile
- EPS/XPS/SM insulation boards
- Polystyrene components
- Thin brick to fiber-cement & other exterior claddings
- Ductwork & HVAC components
- Countertops and Backsplashes
- Wood, trim/molding, siding, and thresholds/sills/vents
- Windows & doors; aluminum, brass, steel and other common metals
- Concrete/masonry, glass, porcelain, mirrors, cultured marble, granite

DESCRIPTION & USES

MasonGrip is a professional-grade, one-component MS Polymer adhesive engineered specifically for thin brick, stone, and tile installations. It delivers instant grab strength, allowing veneers to be set on vertical or overhead surfaces without slipping, bracing, or sagging. Its flexible, crack-resistant bond accommodates substrate movement, temperature changes, and freeze-thaw cycles, ensuring long-term durability in both interior and exterior applications.

MasonGrip is VOC-free, weatherproof, and solvent-free, making it safe for use in occupied spaces while maintaining strong adhesion to concrete, plywood, cement board, masonry, fiber-cement, metals, insulation panels, and other common substrates. Its formulation provides structural-grade tensile strength with excellent elasticity, giving installers a reliable alternative to thin-set mortar or mechanical fasteners.

Uses include:

- Securing thin brick, stone veneer, or tile to EPS foam panels within the Panel+ Wall System.
- Direct bonding of veneers to concrete, CMU, plywood, gypsum board, cement board, or other approved substrates.
- Interior upgrades such as backsplashes, feature walls, and fireplace surrounds.
- Exterior applications including façades, trim, and accents subject to weather exposure and freeze-thaw conditions.
- Overhead or vertical installations where instant adhesion and long-term stability are critical.

ADVANTAGES

High-performance instant grab for rapid positioning.

High viscosity & strength for robust, durable bonds

Permanently waterproof, crack-proof, and mold-resistant

Bonds & seals in wet or dry conditions

Non-rigid structural bond accommodates movement and helps prevent cracking

Non-sag; vibration and impact resistant

Weatherproof & UV-resistant for exterior exposure

Odorless; solvent-, silicone-, and isocyanate-free; 0 VOC

Non-staining—will not leach or discolor brick and natural stone

Fast application and cure—eliminates nails, screws, or clamps in many details

TECHNICAL INFORMATION

TEST	METHOD	RESULTS
Service Temperature	—	–40 °F to 212 °F (–40 °C to 100 °C)
Shore A Hardness	ASTM C661	57 ± 5
UV Resistance	2000 h UV-A	No change in appearance or properties
Tensile Strength (max.)	ASTM D412	~575 psi (≈4.0 MPa)
Elongation at Break	ASTM D412	> 110%
Movement Capability	—	±25%
Corrosivity/Staining	—	Non-corrosive / Non-staining
Shrinkage	—	Zero (0)

APPLICABLE STANDARDS

ASTM C661 ASTM D412
ASTM C734 ASTM D1002

Values are typical and may vary based on substrate, temperature, humidity, and bead geometry.

BASIS OF PRODUCT DATA

The technical data and recommendations herein are based on current knowledge and typical laboratory results. They describe the product and its performance but do not constitute a warranty of properties or fitness for a particular purpose. Conditions of use are outside of our control; the user is responsible for verifying suitability, complying with applicable codes/standards, and implementing proper handling, storage, installation, and disposal practices. Use only for the applications described in this Technical Data Sheet and the accompanying SDS.

LIMITATIONS

- Do not over-tool or smear on both joint flanks; avoid feather-edging over prefinished colored claddings (siding/trim) to preserve UV stability and movement capability.
- Not a substitute for proper design detailing (movement joints, drainage, flashing, and weeps).
- Not for polyethylene, PTFE, or bituminous substrates without testing.
- Always conduct mock-ups to verify aesthetics and performance with natural stone and other sensitive finishes.

CLEANING & REMOVAL

- Uncured adhesive: remove with suitable solvent on a clean cloth.
- Cured adhesive: mechanical removal only (careful scraping/cutting).

HEALTH & SAFETY

- Not classified as dangerous per CLP Regulation (EC) No. 1272/2008.
- Avoid skin/eye contact; do not ingest.
- PPE: chemical-resistant gloves, splash-rated eyewear, work clothing, and non-slip footwear.
- Provide access to eyewash and emergency shower.
- Refer to the Safety Data Sheet (SDS) for full information.

SURFACE PREPARATION

- Substrates must be sound, clean, and free of dust, oil/grease, release agents, loose coatings, liquid sealants, and contaminants.
- Painted surfaces must be fully cured and well-bonded; remove loose paint.
- Adhesion test is required for each substrate; abrade dense/impervious surfaces if needed.
- Suitable for damp surfaces; standing water must be removed.

APPLICATION

- Application Temperature: 41 °F to 104 °F (5 °C to 40 °C)
- Apply with a manual or pneumatic sausage gun using a nozzle sized for the required bead.
- Bead Patterns: Continuous perimeter bead with serpentine infill, or spot-bed “dabs” as detail requires. Maintain squeeze-out for wetting.
- Setting/Adjusting: Press firmly to ensure full contact; adjust within open time. Support heavy elements until initial grab holds.
- Tooling: If tooling is required, do so within skin time. Do not smear or feather thin across visible faces or both sides of a joint—this can reduce UV/movement durability and lead to premature failure or color change.

CURING

- Skins in minutes depending on ambient conditions.
- Functional cure typically in 24 hours; optimal bond after 24–48 hours at 73.4 °F (23 °C) for 2–3 mm bead thickness.
- Lower temperature, low humidity, and larger beads extend cure time.

EQUIPMENT

- Sausage (foil pack) dispensing gun—manual or pneumatic
- Appropriate nozzles; surface cleaning supplies and PPE as listed above