TECHNICAL DATA SHEET

SuperiorSeal

Master Wall Inc.

DESCRIPTION

A primerless self-adhered, self-sealing flashing membrane consisting of a polyester fabric facing and high-performance butyl adhesive, providing waterproofing protection, excellent adhesion, low-temperature application properties, and high-temperature stability. It is designed to provide continuous air/water-resistive barrier transitions at rough openings, penetrations, joints, and other critical wall assembly interfaces.

USES

- Treat sheathing joints, penetrations, static or dynamic wall joints and transitions between dissimilar materials.
- Flash window, door and other rough openings and seal transitions between flanges and wall sheathing.
- Provide transitions to above-grade foundation waterproofing, roof membranes, and other wall assembly interfaces for air/weather barrier continuity.

FEATURES & BENEFITS

- Primerless, self-adhering application eliminates separate primers, special adhesives, heat, and specialized installation equipment, reducing labor and material costs
- Self-sealing protection forms a continuous seal and self-seals around nails and other penetrations
- AAMA 711-20 compliant meeting the performance requirements for self-adhering flashing used with exterior wall fenestration
- May remain exposed for up to 180 days when coated with Rollershield AWRB

Membrane Width	Typical Application
4 in.	Treat sheathing joints and seams; integrate flashing membrane with window flanges and adjacent sheathing; and provide transitions at metal flashing.
6 in.	Flash rough openings, penetrations, expansion joints, and transitions between dissimilar substrates. Integrate with adjacent foundation waterproofing, roofing membranes, and metal flashing.
9 in.	Provide wider membrane coverage, including rough openings, penetrations, expansion joints, substrate transitions, and interfaces with foundation waterproofing, roof membranes, or metal flashing; and address conditions requiring increased membrane width for proper attachment and overlap.

SURFACE PREPARATION

Substrates must be frost free, smooth, clean, dry, structurally sound, and free of loose material, coatings, damage, efflorescence, oil, form release agents, curing compounds, dirt, and other bond-inhibiting materials. Surface irregularities and imperfections that could adversely affect the continuous application of the air/water-resistive barrier must be corrected prior to application.

- **Sheathing**: must be installed in accordance with applicable building codes and the sheathing manufacturer's published installation requirements. Damaged sheathing, including areas with missing or damaged glass-mat facer, must be removed and replaced before installation.
- **Masonry:** Substrates must be cured and dry. Where masonry joints are not struck flush, or where split-face CMU or lightweight, porous masonry is present, apply Master Wall MBB Plus Base Coat as needed to provide a smooth, uniform surface. Allow all leveling materials to fully cure and dry before applying Rollershield.
- **Concrete:** Allow concrete to cure a minimum of 28 days. Remove surface irregularities and mechanically abrade smooth or dense surfaces as needed to remove laitance and promote adhesion.

PACKAGING

- 4" x 75' (10cm x 23m) – 9 per case
- 6" x 75' (15cm x 23m) – 6 per case
- 9" x 75' (23cm x 23m) – 4 per case

COVERAGE PER CASE*

4" - 675 lft (205.7 lm)
6" - 450 lft (137 lm)
9" - 300 lft (91 lm)

*Coverage rates are approximate and depend on substrate and application techniques.

SHELF LIFE

2 years from date of manufacture when properly stored in unopened factory packaging.

STORAGE

Store materials at temperatures between 40°F (4°C) and 90°F (32°C). Protect materials from freezing, excessive heat and direct sunlight.

APPLICATION TEMPERATURES

May be applied to frost-free substrates at temperatures down to 25°F (-4°C).

- For cold-weather applications below 40°F, condition SuperiorSeal at room temperature for 24 hours before use. A heat gun may be used as needed to improve initial adhesion to the substrate.

ACCEPTABLE SUBSTRATES*

- ASTM C1177 Glass Mat Gypsum
- ASTM C1325 Type A Exterior Cement Board
- Exposure 1 or Exterior Plywood and OSB
- Concrete & Portland Cement Plaster
- Sound uncoated CMU and Brick
- Metal/Steel and PVC

*Follow surface preparation requirements.

EXPOSURE

May be exposed to weather for up to 6 months (180 days) when coated with Rollershield before installation of the specified wall cladding.

CURING & DRYING

- Skins within 30-60 minutes and dries within 6-8 hours under normal conditions [70°F (21°C), 50% RH].
- A moisture-curing product. Low temperatures and low relative humidity will extend drying and curing time, while higher temperatures and humidity may accelerate it.

APPLICATION

Cut SuperiorSeal into manageable lengths using scissors or a suitable utility knife and pre-fit as necessary to ensure proper alignment and coverage. Remove the release liner and apply the membrane from the lowest point upward. Where a split release liner is provided, remove one section at a time to assist with positioning. Press the membrane into place by hand, working progressively across the surface to achieve a smooth, wrinkle-free installation. Do not stretch the membrane during application.

- Overlap adjacent surfaces and membrane to membrane joints a minimum of 2 in. Install horizontal overlaps in shingle fashion to promote positive drainage.
- **NOTE:** Immediately after placement, firmly roll the entire membrane with a suitable hard rubber roller to ensure continuous substrate contact, paying particular attention to edges, ends, corners, and overlaps. Eliminate wrinkles, fishmouths, loose edges, trapped air, and other discontinuities before proceeding.
- Treat termination edges, laps, cuts, penetrations, and remaining voids with SuperiorFlash, or an approved one-component polyurethane sealant.
- SuperiorSeal must be fully coated with Rollershield. Once coated, the assembly may remain exposed to weather for up to 180 days prior to installation of the final cladding.

Sheathing Joints:

Install SuperiorSeal beginning at the bottom of the wall, extending the membrane across the sheathing-to-foundation transition a minimum of 2 in. Continue upward by centering the membrane over each vertical sheathing joint and terminating it at the intersecting horizontal joint. Install SuperiorSeal continuously along the horizontal joint, shingle-lapping over the previously installed vertical membrane a minimum of 2 in. to maintain positive drainage. Firmly roll the membrane, including all laps, edges, and terminations, with a suitable hard rubber roller to ensure continuous contact with the substrate

Expansion Joints:

For vertical expansion joints, begin installation at the bottom of the wall and work upward to maintain proper shingle lapping. Position SuperiorSeal over the expansion joint with sufficient membrane width to provide secure adhesion to the substrate on both sides. Peel back a portion of the release liner and adhere to one side of the membrane. Carefully form the unbonded center portion into the joint using a smooth, blunt-edged tool, leaving adequate material within the joint to accommodate anticipated movement. Remove the remaining liner and adhere the opposite side to the substrate. Apply firm pressure with a hard rubber roller along the bonded areas to achieve full, uniform contact. Maintain the formed membrane within the joint and avoid pulling the membrane taut across the opening.

Though-Wall Penetrations:

Pre-measure and cut 6 in. or 9 in. wide SuperiorSeal to fit the sill, extending the membrane a minimum of 4 in. up each jamb. Remove the release liner progressively while positioning the membrane and carefully form SuperiorSeal into the sill and corners without stretching. Press into place by hand to achieve smooth, continuous contact with the substrate.

Install the jamb membranes next, overlapping the sill membrane to maintain proper shingle lapping. After the jambs are installed, re-measure and cut 6 in. or 9 in. wide SuperiorSeal for the window head. Install the head membrane to shingle-lap the jamb membranes a minimum of 2 in. and extend at least 2 in. beyond each jamb. Progressively remove the split release liner while positioning and smoothing the membrane into place.

NOTE: Extend SuperiorSeal a minimum of 2 in. (51 mm) onto the exterior wall surface and a minimum of 1 in. beyond the primary air/water seal of the window.

LIMITATIONS

1. Do not apply over unapproved substrates, silicone sealants, or solvent-based products.
2. Repairs are limited to 2 in. maximum. Install a minimum 6 in. wide segment of SuperiorSeal over the damaged area, extending a minimum 2 in. beyond the damage on all sides.
3. Not for use in below-grade applications, or areas subject to prolonged water immersion.
4. Pressure or fire-retardant treated plywood must be dry and free of contaminants or other materials that may inhibit adhesion.
5. Limit weather exposure to 6 months (180 days) before installation of the specified wall cladding.
6. Sealants containing high levels of hydrocarbons or plasticizers may inhibit adhesion or be incompatible with SuperiorSeal.

TEST	STANDARD	CRITERIA	RESULT
Tensile Strength	ASTM D412, Method A, Die C	Minimum 143 psi	1,264 psi MD 1167 CMD
Softening Point	ASTM D36	Report value	280°F to 300°F
Cold-Temperature Pliability	ASTM C765	14 days at 158°F, then 2 hours at 0°F; bend 180° around a 1-in. mandrel at 0°F and visually inspect for cracking.	Pass
Peel Adhesion	ASTM D3330, Method F	Conditioned 24 hours at 73°F (23°C) and 50% RH; minimum 1.5 lbf/in	OSB: 2.1 lbf/in Anodized Aluminum: 4.9 lbf/in Vinyl: 4.3 lbf/in Plywood: 3.0 lbf/in Glass-Mat Sheathing: 3.4 lbf/in Self-Adhesion: 2.0 lbf/in
Peel Adhesion After Conditioning	ASTM D3330, Method F	Minimum 1.5 lbf/in after: A. Accelerated aging B. Thermal cycling C. Elevated temperature D. Water immersion	 A. 7.7 lbf/in B. 6.7 lbf/in C. 6.7 lbf/in D. 6.4 lbf/in
Nail Sealability	AAMA 711 Section 5.2.1	Galvanized roofing nail and #8 pan-head screw; conditioned 24 h at ambient; tested at 1.2 in. w.c. and 40 ± 5°F for 24 h.	Pass: Before and after thermal cycling
Peel Adhesion After Immersion	AAMA 711, Section 5.8	Minimum 1.5 lbf/in after 7-day water immersion	5.6 pre-immersion 6.4 post-immersion
Resistance to Peel	AAMA 711 Annex 2	No edge or corner curl > 1/2 in. the flashing width	Pass: Level 3 at 176°F
Pull-Off Adhesion Strength	ABAA T0002	Minimum 16 psi	Pass
Service Temperature	Lab Test	Report Value	-30ºF to 200ºF

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Master Wall Inc.
1 Master Wall Ct.
Columbus, GA 31907
800-755-0825
masterwall.com
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