TECHNICAL DATA SHEET

SuperiorFlash

DESCRIPTION

A gun-grade, moisture-curing flashing and waterproofing material. It cures to form a durable, seamless, elastomeric membrane and is compatible with Rollershield air/water-resistive barrier products. Its fast-curing formulation supports same day installation of windows, doors, and other wall assembly components.

USES

SuperiorFlash is designed for use with Master Wall Rollershield air/water-resistive barrier systems to flash and waterproof window and door rough openings; treat static sheathing joints, small penetrations, and fastener heads; and detail transitions at flashing and other wall assembly components. It forms a seamless, elastomeric membrane that bonds to a wide range of common building substrates.

FEATURES & BENEFITS

- Damp-surface compatibility provides greater installation flexibility during changing job-site conditions
- Conforms to complex penetrations and irregular conditions for easier, more complete detailing
- Fast curing helps accelerate installation, allowing windows, doors, and other wall assembly components to be installed the same day
- Cold-weather application capability provides greater installation flexibility during low-temperature conditions

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. Gaps or joints greater than 1/2 in. must be structurally repaired or properly prepared to receive an appropriate transition membrane.

APPLICATION

Sheathing Joints

Apply a thick bead of SuperiorFlash continuously over static sheathing joints up to 1/4 in. wide. Tool the material into the joint and smooth using a dry joint knife, trowel, or similar flexible tool. Spread SuperiorFlash a minimum of 1 in. beyond the seam on each side at a wet-film thickness of 12-15 mils, creating a continuous, pinhole and void free membrane. Allow SuperiorFlash to skin prior to Rollershield application.

NOTE: For joints from 3/8 in. to 1/2 in. wide, SuperiorFlash must be applied at 20 mils, with a minimum of 1 in. beyond the seam on each side.

Rough Openings

Apply a generous bead of SuperiorFlash at sill to jamb, jamb to head transitions. If wood bucks are present, fill gaps at wood buck joints and between wood bucks and supporting construction.

Apply additional SuperiorFlash in a zig zag pattern across the sill, jambs, and head, then spread before skinning to create a continuous, uniform, void and pinhole free membrane at 12-15 mil wet thickness. Maintain this thickness while extending the membrane a minimum

PACKAGING

- 20 oz – 20 sausages per case

COVERAGE PER 20 OZ SAUSAGE

- 15-17 ft^2 / 85-92 lf applied at 15 mils
- 10-11 ft^2 / 56-65 lf applied at 20 mils

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

SHELF LIFE

1 year from date of manufacture when properly stored in unopened factory packaging.

STORAGE

Store materials in a dry location, upright in unopened factory packaging and protected from direct sunlight. Store at or below 80°F (27°C).

APPLICATION TEMPERATURES

Maintain substrate and ambient temperatures between 32°F (0°C) and 110°F (43°C) throughout application, drying, and curing.

COLD WEATHER

May be applied to frost-free substrates at temperatures below 32°F (0°C); however, curing will not begin until temperatures reach 32°F (0°C) and remain above freezing.

ACCEPTABLE SUBSTRATES*

- Master Wall Rollershield RS/RG/VB
- 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 and PVC

*Follow surface preparation requirements.

EXPOSURE

May be exposed to weather for up to 6 months (180 days) 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.

of 1 in. beyond the primary air/water seal of the window and 4 in. onto the exterior sheathing around the full perimeter of the opening. Allow SuperiorFlash to skin prior to Rollershield application.

Note: Allow SuperiorFlash to cure before installing windows, doors and other wall assembly components.

Additional Applications

Flashing Transitions: Apply a generous bead of SuperiorFlash® along the flashing to wall interface or apply in a zigzag pattern across the transition. Before the material skins, spread SuperiorFlash® to form a continuous, seamless counterflashing membrane extending a minimum of 2 in. onto the vertical wall surface and down over the metal flashing to completely cover fastener penetrations.

Masonry Ties and Fasteners: Apply SuperiorFlash at fastener penetrations to provide a continuous seal. For masonry ties, embed the flange in SuperiorFlash or apply material continuously around the perimeter of the tie flange at the wall interface.

Through-Wall Penetrations: Penetrating elements must fit snugly (1/4 in.) at the wall interface and be secured against movement. Apply SuperiorFlash® around the entire perimeter and tool onto the adjacent wall surface and penetration to create a continuous seal. Extend the material a minimum of 1 in. onto the wall and 1 in. onto the penetrating element.

CLEAN UP

Clean tools and equipment with water immediately after use and before the flashing dries. Dried material may require mechanical removal.

LIMITATIONS

1. Suitable for static sheathing joints up to 1/4 in. wide at 15 mils. Joints from 3/8 in. to 1/2 in. wide require 20 mil application.
2. Not for use in below-grade applications, or areas subject to prolonged water immersion.
3. Pressure or fire-retardant treated plywood must be dry and free of contaminants or other materials that may inhibit adhesion.
4. Limit weather exposure to 6 months (180 days) before installation of the specified wall cladding.
5. May be applied to frost-free substrates at temperatures below 32°F (0°C); however, curing will not begin until temperatures reach 32°F (0°C) and remain above freezing.
6. Not intended for structural sealing, expansion joint applications, or use as a permanently exposed weather seal.
7. When air or surface temperatures exceed 95°F (35°C), apply SuperiorFlash to shaded surfaces and schedule application before temperatures reach their highest levels for the day.

TECHNICAL PERFORMANCE

Product Performance

TEST	STANDARD	CRITERIA	RESULT
Air Leakage of Air Barrier Assemblies	ASTM E235	≤ 0.04 cfm / ft2 at 1.57 psf (≤ 0.2 L/s m2 at 75 Pa)	**Pass**
Surface Burning Characteristics	ASTM E84	Class A: Flame Spread ≤ 25 Smoke Developed ≤ 450	**Flame Spread: 15** **Smoke Developed: 5**
Elongation at Break	ASTM D412	Report value	**>350%**
VOC Content	ASTM D3960, based in part on EPA Method 24.	VOC less than 50 g/L	**Pass - 30 g/L**

ICC-ES AC212 – Water-Resistive Coatings

(Tested as part of an assembly)

TEST	STANDARD	CRITERIA	RESULT
Tensile Bond	ASTM C297 / AC 212 Sec 4.1	Minimum 15 psi (105 kPa)	**Pass**
Freeze-Thaw	ASTM E2485 / AC212 Sec 4.2	No deleterious effects after 10 exposure cycles	**Pass**
Water Resistance	ASTM D2247 / AC212 Sec 4.3	14-day Exposure to 100% RH at 100°F (38°C)	**Pass**
Water Penetration	ASTM E331	No visible water penetration at sheathing joints	**Pass**
Weathering	ICC-ES AC212 / AATCC 127	No water penetration under 21.7" (550 mm) head of water	**Pass**

AAMA 714 - Liquid-Applied Flashing for Wall Openings

TEST	STANDARD	CRITERIA	RESULT
Adhesive Strength to Substrates	ASTM C794	Minimum 5 pli	**Pass**
Nail Sealability	ASTM D1970 AAMA 711 Section 5.3	No water penetration after 24 hours at 1.25 in. (31 mm) water head	**Pass**
Accelerated UV Aging Peel Adhesion Appearance	ASTM G154, UVA Cycle 1 / ASTM C794, Visual	Minimum 5 pli	**Pass**
Elevated Temperature	ASTM C794 / AAMA 714 Sec 5.4	Level 3 - 176°F for 7 days	**Pass**
Thermal Cycling	ASTM C794 / AAMA 714 Sec 5.5	10 thermal cycles, 120°F to -40°F (50°C to -40°C)	**Pass**
Crack Bridging	ASTM C1305 / AAMA 714 Sec 5.6	10 cycles with 1/8 in. (3 mm) gap; 24-hr water holdout at 21.7 in. (550 mm).	**Pass**
Water Immersion	ASTM C794 / AAMA 714 Sec 5.7	7 day water immersion at 73°F (23°C)	**Pass**
Water Vapor Permeability	ASTM E96 Wet Cup AAMA 714 Sec 6.3	Minimum of 10 perms at manufacturer's recommended application thickness	**21 perms**
Damp Surfaces	ASTM C794 AAMA 714 Sec 6.1 and 6.2	Minimum 5 pli	**Pass**

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