



DATA SHEET NO. 5116-500

AIR-SHIELD™ BUTYL FLASHING Transition and Detailing Membrane

DESCRIPTION

AIR-SHIELD BUTYL FLASHING is a primerless, composite membrane that is comprised of a white woven polyethylene facer and easy-to-release split-face PET (polyester) clear film backing. The product is designed for extreme cold applications down to -12° C. It can be used as a flashing for rough openings, windows, detailing, and as a transition membrane. This material is an air, vapour, and liquid moisture barrier.

USES

AIR-SHIELD BUTYL FLASHING provides protection against water infiltration in critical detail areas, such as window and door openings, deck-to-wall intersections, corner boards, wall-to-wall tie-ins, foundation sill plates, sheathing panel seams, masonry walls, and other non-roof detail areas. AIR-SHIELD BUTYL FLASHING is designed to be applied without primer or adhesive to ordinary concrete, steel, copper, stainless and galvanized steel, untreated wood, insulated concrete forms (ICFs), extruded insulation board, and exterior-grade fiberglass mat gypsum board sheeting. Treated lumber, OSB, and plywood may require a primer/adhesive, depending on treatment, integrity, and surface films.

AIR-SHIELD BUTYL FLASHING is designed to be used as a part of the AIR-SHIELD air-barrier product line from W. R. MEADOWS. The product has been tested and is chemically compatible with all AIR-SHIELD products.

FEATURES/BENEFITS

- AAMA 711 Approved - Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration Products
- Primerless application provides quicker installation; decreases labour, reduces potential for jobsite-related adhesive issues
- Split-face PET (polyester) clear film release backing - provides easy release and reduced tearing
- Installs down to -12° C; lowest primerless application temperature on market; allows projects to continue even in cold temperatures; helps keep projects on schedule
- Can be exposed up to 24 months
- Intermittent exposure up to 115° C.

- Factory controlled to ensure proper uniform thickness and performance
- High puncture rated surface film protects high-performance butyl membrane against incidental damage during construction process
- Lighter weight than conventional flashing materials
- Available in various pre-cut convenient widths to meet most specific job needs/Decreased need to cut onsite; thereby reducing install labour costs.

PACKAGING

Available in cut rolls of 4", 6", 9", and 12" (102, 152, 224, 326 mm) wide x 75' (22.9 m) long rolls. NOTE: Some sizes require lead time.

AIR-SHIELD BUTYL FLASHING should be stored palletized and protected from rain and/or physical damage. Do not store at temperatures above 26.6° C for extended periods of time. Do not leave membrane exposed to direct sunlight. Do not double-deck pallets.

SPECIFICATIONS/STANDARDS

- Exceeds AAMA 711 Standards - Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration Products
- ASTM E2112-07 Standard Practice for Installation of Exterior Windows, Doors and Skylights

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TECHNICAL DATA

Adhesive	Butyl Rubber
Color	White Woven Polyethylene Facer
Release Liner	Split-Face PET (Polyester)
Self-Adhered	Yes
Thickness	14.5 Mils
Application Temperature	-12° C and rising
Service Temperature	Intermittent Exposure up to 115° C
Pliability, 180°, 1" (25 mm), Mandrel @ -29° F (-34 °C)	Pass
Nail Sealability	Pass
Water Vapor Permeance ASTM E96, Procedure A	0.073 Perms
Water Vapor Permeance ASTM E96, Procedure B	0.097 Perms
Puncture Resistance ASTM E154	93 lbf (413 N)

APPLICATION

Surface Preparation ... All surfaces must be clean, dry, frost-free, and smooth. Remove any sharp protrusions and repair all defects. Apply AIR-SHIELD BUTYL FLASHING in dry conditions between -12° to 48.8° C air, surface, and membrane temperatures. Minimum application temperature is -12° C and rising. After precipitation, allow a minimum of 24 hours for drying before installation. Ensure surface is free of dew. All protrusions, sharp edges, or points must be removed. Surfaces should have no voids or damaged/unsupported areas. Repair surfaces before installing.

Certain project and/or substrate conditions may require the use of a primer, such as MEL-PRIME™. Please contact W. R. MEADOWS for more information.

Existing Concrete ... Concrete surface must be clean and dry with all chemical form agents, stains, oil, grease, dust and dirt removed prior to application.

Application Method ... Cut AIR-SHIELD BUTYL FLASHING to desired length. Peel back the release paper to expose adhesive. Once positioned, immediately hand-rub AIR-SHIELD BUTYL FLASHING firmly to the surface, removing any bubbles or wrinkles, then pressure roll using a vinyl floor roller three times over the entire surface to assure positive adhesion. Adhesion will take 24 hours to fully develop. Laps must be a minimum of 2.5" (63.5 mm). Consistent with good construction practice, install the membrane so that all laps shed water (following the shingle principle). The top membrane layer should go over the bottom layer. Always work from low point to high point which ensures a shingle overlapped condition.

LIMITATIONS

AIR-SHIELD BUTYL FLASHING can be exposed for periods up to 24 months. Installed membrane is not designed for permanent UV exposure and should be covered as soon as reasonably possible to prevent UV and other construction damage. Do not apply to wet, damp, dew-covered, contaminated, dirty, or frost-covered surfaces. Depending on surface, a solvent wipe may be needed to remove any surface film to ensure optimal adhesion.

Surface moisture, as with all primerless adhesives, will adversely affect performance. Product is not suitable for TPO and silicone roofing, most polyurethane sealants, creosote, coal tar products, EPDM, and flexible PVCs. AIR-SHIELD BUTYL FLASHING is compatible with rigid PVC/vinyl membranes.

The use of a termination bar or mastics such as BEM or POINTING MASTIC from W. R. MEADOWS may be required in certain applications.

Membrane adhesion of self-adhesive membranes on oriented strand board (OSB), fire-rated treated lumber, concrete or concrete block can sometimes be affected by the level of surface texture, the presence of wax, treatments, or dust. In situations where the membrane adhesion is a concern due to substrate type, in-situ adhesion tests should be performed to determine suitability of substrate prior to full installation. If there are variations in the OSB surface, multiple tests may be required.

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