

# BUILDING ENVELOPE

## UNWAVERING PROTECTION AGAINST MOISTURE AND VAPOR

### LEAKBARRIER® BUTYL

**LeakBarrier Butyl** is a high-performance, self-adhesive membrane designed for sealing windows, doors, and construction joints, offering superior moisture protection. Tailored for performance across high and low temperatures, down to 15°F, it integrates a robust butyl adhesive with engineered polyethylene film for streamlined installation. LeakBarrier® Butyl is ideal for sealing vertical wall penetrations and interfaces, and is also used on roof decks to seal sheathing seams—helping reduce the risk of water intrusion when roof coverings are damaged or lost.

#### APPLICATION

**LeakBarrier Butyl** features advanced adhesive technology for installation in low temperatures down to 15°F and withstands temperatures up to 240°F. LeakBarrier Butyl is a versatile flashing membrane option that offers a moisture barrier around many design details, including window and door openings, inside and outside corners of sheathing, electrical and plumbing penetrations, wall-to-wall tie-ins, deck-to-side wall transitions, behind stone and masonry walls, roofing panel and sheathing seams, foundation sill plates, behind stucco finishes, and many other applications.

#### FEATURES AND BENEFITS

- ◆ **Durability:** 20 mil thickness offers less buildup and more pliability on inside and outside corners.
- ◆ **Performance Temperature:** Works in cold temperatures, down to 15°F.
- ◆ **Watertight Seal:** Provides a secure and waterproof barrier around joints, seams, and penetrations, preventing water infiltration.
- ◆ **Versatile Application:** Ideal for windows, doors, sidewall transitions, roof to wall transitions and other vulnerable areas.
- ◆ **Time and Cost Savings:** Easy peel and stick supplied in rolls with an easy to remove release liner for mess free application.
- ◆ **Testing:** AAMA 711 compliant and meets the requirements of Performance Level 3
- ◆ **Testing:** Performance attributes evaluated per ASTM D1970 test methods for nail sealability and cold temperature pliability.
- ◆ **UV Exposure:** 120 Days gives extended exposure.
- ◆ **Adhesion:** Superior adhesion and compatibility over asphalt products.
- ◆ **Fortified Roof:** Complies with IBHS FORTIFIED Roof requirements when used in an Enhanced Roof Deck Attachment.

#### PERFORMANCE AND INSTALLATION

- ◆ **Performance:** LeakBarrier Butyl is designed for application within a broad temperature range of 15°F (-10°C) to 120°F (48.9°C) to guarantee the best adhesion possible. Immediate coverage is recommended to safeguard the product, with exposure limited to 120 days. It's important to periodically check for any potential damage to ensure it maintains its protective qualities. This product is noted for its compatibility with a diverse range of building materials, making it a flexible option for various construction needs. LeakBarrier Butyl can also withstand service temperatures up to 240°F (115.6°C), offering durability under extreme conditions.
- ◆ **Installation:** Surfaces should be dry, clean, and smooth before installing LeakBarrier Butyl, free from dirt, debris, or sharp projections. Surfaces must be level, with no voids or damages. Repair any flaws prior to membrane application. Priming is necessary on certain substrates like gypsum board (including Dens-Glass Gold), concrete, and masonry. Conduct a field test for adhesion on all substrates; if unsatisfactory, apply a compatible primer as per the manufacturer's guidance. If primer is used, re-prime any areas not covered by the membrane on the same day. Utilize a j-roller for even pressure application across the flashing membrane, ensuring a solid and dependable bond.

#### PRODUCT CHARACTERISTICS

- ◆ **Thickness:** 20 mil
  - ◆ **Roll Width:** Available in 4", 6", 9", 12" widths
  - ◆ **Roll Length:** Rolls are 75' linear feet
  - ◆ **Backing:** Self-adhesive specially formulated butyl adhesive for enhanced waterproofing
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## PRODUCT CHARACTERISTICS, CONTINUED

- ◆ **Surface Film:** Engineered polypropylene, which is thermally stable over a wide temperature range; prevents edge lifting and tunneling
- ◆ **Release Liner:** Removable silicon treated release liner on bottom adhesive side
- ◆ **Service Temperature:** Withstands temperature of up to 240°F
- ◆ **Application Temperature:** Best when used between 15°F to 120°F

## PROPERTIES AND ATTRIBUTES

PROPERTY	RESULT	MINIMUM REQUIREMENT
Tensile Strength	PASS	143 psi – PASS
Water Penetration Resistance around Nails Prior to Thermal Cycling	PASS	No water in bottom can, on nail shanks or on the underside of the sheathing - PASS
Water Penetration Resistance around Nails After Thermal Cycling	PASS	No water in bottom can, on nail shanks or on the underside of the sheathing - PASS
90° Peel Adhesion on OSB	3.2 lb/in	1.5 lb/in - PASS
Cold Temperature Pliability	No visible signs of cracking	No visible signs of cracking - PASS
Self-Resistance to Peeling	No peeling	Report only - PASS
Water Vapor Transmission ASTM E 96	Permeance (US Perms) <0.14	N/A
Peel Adhesion ASTM D 1000 (To Primed Steel)	> 6.1 lb/in width	N/A
Elongation – Ultimate Failure ASTM D412 (Modified Die C)	M-400% – T-291%	N/A

## LIMITATIONS AND PRECAUTIONS

LeakBarrier Butyl is pressure sensitive and requires proper rolling with a j-roller to ensure optimal adhesion. For best adhesion results, apply LeakBarrier Butyl in temperatures ranging from 15°F (-10°C) to 120°F (49°C). LeakBarrier Butyl is uniquely designed as a flashing membrane for vertical walls and roofing applications. In situations involving horizontal installations, refrain from using fasteners and ensure the product is covered within 120 days of installation. It is crucial to inspect the product before and after installation to confirm it is free from any protrusions or damage that could affect its moisture-resisting capabilities. Most sealants are compatible with LeakBarrier Butyl; however, always consult the sealant manufacturer for compatibility information.

## WARRANTY

LeakBarrier Butyl is warranted to be free from manufacturer's defects.

**NOTE:** All statements information and data given herein are believed to be accurate and reliable, but are presented without guaranty, warranty, or responsibility of any kind, expressed or implied, except as may be indicated otherwise in this literature.

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