



Installation Guide

BreaSmart AD

Premium Peel & Stick Exterior House Wrap

For Residential & Commercial Walls • Roof Walls • Basements

Product Overview

BreaSmart AD is a high-performance exterior house wrap that provides continuous protection against wind, water, and moisture while allowing walls to breathe and dry efficiently. Lightweight, durable, and UV-stable, it helps prevent mold, rot, and energy loss, ensuring long-term wall protection. Its self-adhesive backing bonds directly to the wall surface, creating a tighter seal around seams, penetrations, and corners. This reduces the risk of air and water infiltration, simplifies installation in windy conditions, and enhances overall wall airtightness. BreaSmart AD can be applied directly to clean, dry wall sheathing, including wood, OSB, or plywood. It can be used under siding, brick, or stucco to provide a continuous air and water barrier.

Storage For best results, store BreaSmart AD upright in its original packaging in a well-ventilated area at room temperature between 40°F (4.4°C) and 120°F (49°C).

Substrate Preparation

BreaSmart AD can be applied over multiple substrates, including but not limited to

- OSB
- Plywood
- Rigid vinyl
- Anodized aluminum

Requirements

- The substrate must be dry, free of dust, debris, voids, protrusions, and damaged or unsupported areas.
- Priming is not required.

Wall Penetrations

- Penetrations must be detailed to ensure watertight and airtight conditions.
- Windows, doors, and other penetrations should be installed in proper sequence to

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maintain a water-shedding condition.

Fastener

- The contractor is responsible for proper installation of fasteners and associated components interfacing with BreaSmart AD.
- Fasteners and components must create a continuous compression seal around penetration points to maintain barrier continuity.
- Any fastener or component that cannot create a proper seal must be supplemented with sealant to fully encapsulate the penetration.

General Application

- Plan the layout of BreaSmart AD in advance to minimize waste and ensure all penetrations are properly detailed.
- Use a two-handed roller to ensure proper adhesion.
- Protect the leading edge during installation to prevent water from getting behind the membrane.
- BreaSmart AD can be repositioned for up to 30 minutes after application. Full adhesion depends on job site conditions.
- Limit coverage to a single floor; do not span floor lines. Apply subsequent courses in a water-shedding manner.
- Do not stretch the material.

Laps/Seams

- BreaSmart AD can be applied horizontally or vertically.
- All overlaps must create a water-shedding condition, with lower courses installed first and lapped under upper courses.
- Overlaps must not allow water to collect.
- Side and end laps in the field of the wall must be a minimum of 3 inches.
- Vertical laps within 24 inches of an interior or exterior corner must be a minimum of 6 inches.
- Inside and outside corner overlaps must be at least 12 inches, with the membrane first applied to the corner substrate, then overlapping onto the adjacent wall plane.
- Vertical laps from floor to floor should be staggered or separated by a horizontal strip of

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BreaSmart AD to maintain continuity and water-shedding performance.

Precautions

Personal Protection: When handling self-adhered house wrap, always wear appropriate personal protective equipment (PPE), including gloves and safety glasses, to prevent cuts from sharp edges or installation tools. When working with the adhesive side, use a roller or flat tool to press the membrane evenly; avoid excessive hand pressure that may cause sticking to gloves or hands.

Environmental Conditions: When installing self-adhered house wrap, avoid wet, dusty, or extreme temperature conditions. Low temperatures may reduce adhesion, requiring preheating or waiting for warmer conditions, while high temperatures increase stickiness, making repositioning difficult.

Handling Penetrations: When preparing wall penetrations such as windows, doors, pipes, or vents, properly seal openings using the membrane itself, dedicated sealing tape, or sealant to maintain continuous air and water resistance. Self-adhered membranes bond directly to clean, dry substrates, eliminating the need for temporary mechanical fixings.

Maintenance & Warranty

BreaSmart AD do not need special maintenance after installed; Lifetime warranty from the day of installation if it is quality defects.

Remark

Recommendations on methods, materials, and construction details are provided by Ark Synthetics based on current knowledge and experience. They serve as a general guide for designers, contractors, and manufacturers. Installation should also consider local conditions, project-specific requirements, and guidance from designers or other qualified professionals. For project assistance, contact info@arksynthetics.com

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