



# Vapor Permeable Air Barrier 3015VP

## Technical Data

August 2017

**Product Description** 3M™ Vapor Permeable Air Barrier 3015VP is a water vapor permeable, air and water impermeable membrane with an aggressive, high-tack acrylic adhesive that does not require the use of a primer on most construction surfaces.

| Product Construction | Backing                     | Adhesive               | Colors | Liner     |
|----------------------|-----------------------------|------------------------|--------|-----------|
|                      | Elastomeric Coated Nonwoven | Acrylic Pattern Coated | White  | Polyester |

**Typical Physical Properties** Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

|                                     | ASTM Test Method                 |
|-------------------------------------|----------------------------------|
| Liner Thickness:                    | 3 mils (0.078 mm) ASTM D3652     |
| Total Thickness (coated membrane):  | 15 mils (0.50 mm) ASTM D3652     |
| Tensile Strength (coated membrane): | 1177 psi (8.1 MPa) ASTM D882     |
| Elongation at Break:                | 40% ASTM D882                    |
| Lap Adhesion (Stainless Steel):     | 50 oz./in (0.44 N/mm) ASTM D3330 |

Water Vapor Transmission per ASTM E96, US perms

Dry Cup 12  
Wet Cup 17

Nail Sealability

127 mm (5 inches) water head after 3 days Dry / Pass ASTM D1970-14, Section 7.9

Surface Burning Characteristics

Flame Spread Index 5 per ASTM E84

Smoke Developed Value 0 per ASTM E84

Rating Class A

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## Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741-8.
- Passes NFPA 285 as part of various exterior wall constructions.
- Service temperature from -40° to 240°F (-40° to 116°C).
- Can be applied to substrates from 0° to 150°F (-18° to 66°C).
- Permeable to water vapor, impermeable to air and water.
- Resists UV exposure for up to 12 months.
- Compatible with many building sealants: No adverse reaction with synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants.
- Excellent adhesion to concrete, concrete block, anodized aluminum, galvanized metal, plywood and most exterior grade fiberglass matt gypsum boards without the use of any primer. Contact your local 3M Sales Representative or refer to the Technical Bulletins for details.
- Adhesive provides a unique combination of both cold and hot temperature adhesion to most substrates, which can extend the construction season in many climates.
- Unique adhesive even adheres to damp surfaces that have not absorbed water, like metals, glass and plastics.
- Seals around nails and staples to prevent moisture intrusion.

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## Surface Preparation

To obtain the best adhesion, 3M™ Vapor Permeable Air Barrier 3015VP should be installed when outdoor temperatures range from 0°F (-18°C) to 150°F (66°C).

- Surfaces should be clean, free from dirt and debris and have not absorbed water.
- Surfaces should be free of any damaged, unsupported areas, sharp protrusions or voids.
- Concrete must be cured a minimum of 7 days before application.
- Block or brick walls should have mortar joints stuck flush.
- While it can be applied as low as 0°F (-18°C), surfaces must be clear of snow, ice or frost.
- Adheres to most common building materials. For difficult to stick to surfaces, test adhesion before application. If needed, apply 3M™ Hi-Strength 90 Spray Adhesive, 3M™ Hi-Strength 94 ET Spray Adhesive, 3M™ Holdfast 70 Spray Adhesive or 3M™ Fastbond™ Contact Adhesive 30NF to prime the substrate prior to applying the membrane. Products are available as either an aerosol or cylinder spray adhesive.

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## Application Instructions

Refer to 3M™ Vapor Permeable Air Barrier 3015VP Installation Guide for detailed application information.

- Remove outer protective film to expose adhesive surface.
- Must be lapped a minimum of 2" on sides and ends. Remove protective film cover before installing the next layer.
- No primer is needed on most construction surfaces.
- The adhesive is very aggressive and quickly bonds to substrates. Do not contaminate the adhesive area with dust or debris before applying it to the intended surface. Be careful when aligning product on the wall as repositioning may be challenging.
- Once aligned, set the membrane in place by rolling the product back against the exposed adhesive. Unwind the roll while maintaining pressure against the wall to tack the membrane in place. Wipe the membrane down with a feathering motion from the middle outward to obtain a smooth surface. For best air barrier membrane performance, roll the membrane with a rubber roller to ensure a tight seal against the wall and between overlapped edges.
- Remove film covering membrane.
- Detail work must be carefully executed to ensure a continuously sealed building envelope.
- Rough openings may be flashed with detail widths of 3M™ Air and Vapor Barrier 3015.

# 3M™ Vapor Permeable Air Barrier 3015VP

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|--|---|
| Storage                                  | Optimum storage conditions are 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.  |
| Shelf Life                               | To obtain best performance, use this product within 24 months from date of manufacture.   |
| Technical Information                    | The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.   |
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ISO 9001

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