



# Technical Data Sheet

## 3M Non-Permeable Air Barrier 3015NP



[Product Details](#)

### Product Description

3M™ Air and Vapor Barrier 3015NP is a non-permeable membrane with an aggressive, high-tack acrylic adhesive that does not require the use of a primer on most construction materials. It even adheres to damp surfaces. This product uses a specially formulated acrylic adhesive that sticks and stays stuck at a wider range of temperatures than traditional air barrier products. The proprietary film backing seals around hand driven nails and staples to prevent moisture intrusion. This film is also tough, resists punctures and tears, yet can be tucked tightly into corners. Both the film and the adhesive are widely compatible with most construction materials.

### Product Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741.
- 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).
- Resists UV exposure for up to 12 months.
- Compatible with most building sealants: synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants. See **3M™ Air Barrier Compatibility Listing Technical Bulletin** for the latest details.
- 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. See **3M™ Air Barrier Compatibility Listing Technical Bulletin** for the latest 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.
- Robust film helps resist bunching around screws.
- Class A fire rating building material with low flame spread and smoke development.

### Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

### Typical Physical Properties

Attribute Name	Value
Color	White
Adhesive Type	Acrylic
Backing	Multi-Layer Film
Liner	Polycoated Kraft

Attribute Name	Test Method	Environmental Condition	Test Condition	Value
Water Vapor Transmission	ASTM E96		Wet Cup	4.90 ng/s/m <sup>2</sup> /Pa (0.09 US Perms)
Water Vapor Transmission	ASTM E96		Dry Cup	5.59 ng/s/m <sup>2</sup> /Pa (0.10 US Perms)
Wall Assembly Fire Test	NFPA 285			Pass <sup>1</sup>

Attribute Name	Test Method	Environmental Condition	Test Condition	Value
Nail Sealability	ASTM D1970	127 mm(5 inches) water head after 3 days		Dry/Pass

<sup>1</sup> Pass as part of various assemblies with foam plastic insulation

Attribute Name	Test Method	Test Condition	Value
Air Permeance of membrane	CAN/ULC S741		0.002 L/s/m <sup>2</sup> <sup>1</sup>
Air Leakage of assembled wall	ASTM E2357	Opaque wall @ 75 Pa(0.3 in/wg.)	0.005
Air Leakage of assembled wall	CAN/ULC S742		0.011 L/s/m <sup>2</sup> <sup>2</sup>
Air Leakage of assembled wall	ASTM E2357	Penetrated wall @ 75 Pa(0.3 in/wg.)	0.006
Air Leakage of assembled wall	CAN/ULC S742		0.014 L/s/m <sup>2</sup> <sup>3</sup>

<sup>1</sup> @ 75 Pa(0.3 in/wg.)

<sup>2</sup> Penetrated wall @ 75 Pa(0.3 in/wg.)

<sup>3</sup> Opaque wall @ 75 Pa(0.3 in/wg.)

### **Typical Performance Characteristics**

Attribute Name	Test Method	Substrate	Value
Lap Adhesion	ASTM D3330		1.18 N/mm (6.74 lb/in)
Elongation at Break	ASTM D882		>700 %
Tensile Strength (Coated Membrane)	ASTM D882		14.8 MPa (2153 lb/ft <sup>2</sup> )
Pull Adhesion	ASTM D4541	Concrete	151 kPa (22 lb/ft <sup>2</sup> )
Pull Adhesion	ASTM D4541	Plywood	167 kPa (24 lb/ft <sup>2</sup> )
Pull Adhesion	ASTM D4541	OSB	111 kPa (16 lb/in <sup>2</sup> )
Pull Adhesion	ASTM D4541	Exterior Gypsum Board	179 kPa (26 lb/in <sup>2</sup> )
180° Peel Adhesion	ASTM D903	Concrete	1.12 N/mm (6.4 lb/in)
180° Peel Adhesion	ASTM D903	Plywood	0.93 N/mm (5.31 lb/in)
180° Peel Adhesion	ASTM D903	OSB	1.03 N/mm (5.88 lb/in)
180° Peel Adhesion	ASTM D903	Exterior Gypsum Board	0.91 N/mm (5.2 lb/in)

Attribute Name	Test Method	Value
Flame Spread Index	ASTM E84	10
Smoke Developed Index	ASTM E84	0
Rating	ICC AC 38	Class A
Flame Spread	CAN/ULC S102	5
Smoke Developed Index	CAN/ULC S102	0

## **Handling/Application Information**

### **Surface Preparation**

- To obtain the best adhesion, 3M™ Air and Vapor Barrier 3015NP 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 tooled or 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.

### **Application Techniques**

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

- Must be lapped a minimum of 2" on sides and ends.
- 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.
- This product uses a pressure sensitive adhesive. Use hand applied pressure to "tack" the product into place. Follow by applying firm pressure with a roller or plastic squeegee.
- Detail work must be carefully executed to ensure a continuously sealed building envelope.

## **Storage and Shelf Life**

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

## **Information**

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## **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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