



Air and Vapor Barrier 3015NP

Technical Data

March 2021

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 adhesive are widely compatible with most construction materials.

Product Construction	Backing	Adhesive	Colors	Liner
	Multilayer Film	Acrylic	White	Polycoated Kraft

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.

		Test Method
Air Permeance of membrane: @ 75Pa (0.3 in/wg.)	0.0004 cfm	ASTM E2178
	0.0021 L/s.m ²	CAN/ULC-S741
Air Leakage of assembled wall: Opaque wall @ 75Pa (0.3 in/wg.)	0.0021 cfm/ft ²	ASTM E2357 CAN/ULC-S742
	0.0106 L/s.m ²	
Penetrated wall @ 75Pa (0.3 in/wg.)	0.0027 cfm/ft ²	ASTM E2357 CAN/ULC-S742
	0.0136 L/s.m ²	
Air Leakage Rate Classification	A1	
Water Vapor Transmission: Desiccant Method	0.10 US Perms	ASTM E96
	5.59 ng/Pa·s·m ²	
Water Method	0.09 US Perms	ASTM E96
	4.90 ng/Pa·s·m ²	

3M™ Air and Vapor Barrier 3015NP

Water Resistance 55cm (21.6 in) of water for 5 hours	No Leakage Observed	AATCC 127
Low Temperature Flexibility @ -30°C (-22°F)	Pass	ASTM D1970 Section 7.9
Nail Sealability 127mm (5in) water head after 3 days	Dry/Pass	ASTM D1970 Section 7.9
Wall Assembly Fire Test As part of various assemblies with foam plastic insulation	Pass	NFPA 285
Surface Burning Characteristics Flame Spread Index	0	ASTM E84
Smoke Developed Value	10	
Rating	Class A	NFPA 101
Flame Spread Rating	0	CAN/ULC S102
Smoke Developed Classification	5	
Crack Bridging	Pass	ASTM C1305
Backing Thickness	5 mils	ASTM D3652
Total Thickness (coated membrane)	10 mils	
Tensile Strength (coated membrane)	2153 psi	ASTM D882
Elongation at Break	> 700%	
Lap Adhesion	6.74 lbf/in 1.18 N/mm	ASTM D1876
Pull Adhesion (psi/kPa)		
Concrete	22 / 151	
Plywood	24 / 167	ASTM D4541
OSB	16 / 111	
DensGlass™	26 / 179	
Peel Strength (lbf/in / N/mm)		
Concrete	6.40 / 1.12	
Plywood	5.31 / 0.93	ASTM D903
OSB	5.88 / 1.03	
DensGlass™	5.20 / 0.91	

3M™ Air and Vapor Barrier 3015NP

Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741.
- Meets the requirements of AAMA 711
- 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 materials: 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, rigid vinyl and most exterior grade fiberglass matt gypsum boards without the use of any primer. Refer to the 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 resists bunching around screws
- Class A fire rating building material with low flame spread and smoke development

Surface Preparation

To obtain the best adhesion, 3M™ Non-Permeable Air 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 struck flush.

3M™ Air and Vapor Barrier 3015NP

- While product 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 especially difficult to stick to surfaces, test adhesion before application as shown in the installation guide. 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.

Application Instructions 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 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.

Product Selection and Use Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.



Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/industrial

3M is a trademark of 3M Company.
©3M 2017 (8/17)