

Technical Data

Vapour Permeable Air Barrier 3015VP

Product Description	3M™ Vapour Permeable Air Barrier 3015VP is a water vapour 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.			
Construction Information	Backing	Adhesive	Colour	Liner
	Elastomeric Coated Nonwoven	Acrylic Pattern Coated	White	Polyester
Typical Physical Properties	<i>Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.</i>			
				Test Method
	Air Permeance of Membrane: @ 75 Pa (0.3 in/wg.)	0.0009 L/s.m ² (0.0002 cfm/ft ²)		CAN/ULC S741/ ASTM E2178
	Air Leakage of Assembled Wall: Opaque Wall @ 75 Pa (0.3 in/wg) Penetrated Wall @ 75 Pa (0.3 in/wg) Air Leakage Rate Classification	0.0226 L/s.m ² (0.0053 cfm/ft ²) 0.0246 L/s.m ² (0.0049 cfm/ft ²) A1		ASTM E2357 ASTM E2357 CAN/ULC S742
	Surface Burning Characteristics: Flame Spread Rating Smoke Developed Classification Flame Spread Index Smoke Developed Value Rating	10 0 5 0 Class A		CAN/ULC S102 CAN/ULC S102 ASTM E84 ASTM E84 NFPA 101
	Wall Assembly Fire Test: Pass as part of various assemblies with foam plastic insulation	Pass		NFPA 285
	Liner Thickness:	0.078 mm (3 mils)		ASTM D3652
	Total Thickness (coated membrane):	0.50 mm (15 mils)		ASTM D3652
	Tensile Strength (coated membrane):	8.1 MPa (1177 psi)		ASTM D882
	Elongation at Break:	40%		ASTM D882
	Lap Adhesion (Stainless Steel):	0.44 N/mm (50 oz./in)		ASTM D3330
	Water Vapour Transmission: Desiccant Method Water Method	685 ng/Pa.s.m ² (12 US Perms) 970 ng/Pa.s.m ² (17 US Perms)		ASTM E96 ASTM E96
	Nail Sealability: 127 mm (5 inches) water head after 3 days	Dry/Pass		ASTM D1970-14, Section 7.9

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Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741-8.
- Assemblies of 3M™ Permeable Air and Vapour Barrier 3015VP and 3M™ Polyurethane Sealant 525 or 3M™ Polyurethane Sealant 540 meet the requirements of ASTM E2357 and CAN/ULC S742.
- Service temperature from -40°C to 116°C (-40°F to 240°F).
- Can be applied to substrates from -18°C to 66°C (0°F to 150°F).
- Permeable to water vapour, 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 fibreglass 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.

Surface Preparation

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

- 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 -18°C (0°F), 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.

Application Instructions

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

- Remove outer protective film to expose adhesive surface.
 - Must be lapped a minimum of 50 mm (2") on sides and ends. Remove clear 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 clear protective 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 Vapour Barrier 3015VP or 3M™ Air and Vapour Barrier Membrane 3015.
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Storage	Optimum storage conditions are 16° to 27°C (60° to 80°F) 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, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.
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ISO 9001 This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.



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