

Air and Vapor Barrier 3015

Technical Data			I	February, 2014	
Product Description	3M TM Air and Vapor Barrier 3015 is an air, moisture and water impermeable membrane with an aggressive, high-tack acrylic pressure sensitive adhesive that does not require the use of a primer on most construction surfaces.				
Product Construction	Backing	Adhesive	Color	Liner	
	Multilayer Elastomeric Film	Acrylic	Tan, semi-translucent	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 membre @ 75 Pa (0.3 in/wg.)		< 0.0002 L/s·m² (<0.00005 cfm/ft²)	ASTM E2178	
	Air Leakage of assemble Opaque wall @ 75 Pa (Penetrated wall @ 75 P Air Leakage Rate Class	0.3 in/wg.) Pa (0.3 in/wg.)	< 0.01 L/s·m² (<0.002 cfm/ft²) < 0.03 L/s·m² (<0.006 cfm/ft²) A1	ASTM E2357 ASTM E2357 CAN/ULC-S742	
	Water Vapor Transmission Desiccant Method Water Method	on	8 ng/Pa·s·m² (0.14 US perm) 15 ng/Pa·s·m² (0.26 US perm)	ASTM E96 ASTM E96	
	Water Resistance 55 cm (21.6 inches) of v for 5 hours	water	No Leakage	AATCC 127 (deviated)	
	Low Temperature Flexibi	lity			
	@ -30°C (-22°F)		Bend Test – pass Water Head Test – No Leakage	ASTM D1970, Section 7.6	
	Nail Sealability 127 mm (5 inches) water after 3 days	er head	Dry / Pass	ASTM D1970, Section 7.9	
	Initial		Pass	ASTM E331/547 as modified per AAMA-711-07,	
	After Thermal Cycling		Pass	Annex 1	
	Wall Assembly Fire Test Pass as part of variou assemblies with foam insulation		Pass	NFPA 285	
	Surface Burning Charact Flame Spread Index Smoke Developed Va Rating		15 45 Class A	ASTM E84 ASTM E84 ICC AC 38	

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Typical Physical
Properties
(continued)

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		Test Method
Backing Thickness:	5 mils (0.13 mm)	ASTM D3652
Total Thickness (coated membrane):	10 mils (0.25 mm)	ASTM D3652
Tensile Strength (coated membrane):	1740 psi (12 MPa)	ASTM D882
Elongation at Break:	700%	ASTM D882
Lap Adhesion	40 oz/in (0.44 N/mm)	ASTM D3330
Pull Adhesion	16 psi (0.11 MPa)	ASTM D4541

Available Sizes

2-3/8", 4", 6", 9", 12", 18", 26", 36", 48" x 75 feet.

	Roll Weight	Theoretical Coverage
18" by 75 ft	10.5 lbs (4.8 kg)	106 ft ² (9.8 m ²)
36" by 75 ft	21 lbs (9.5 kg)	212 ft ² (19.7 m ²)
48" by 75 ft	28 lbs (12.7 kg)	282 ft ² (26.2 m ²)

Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741-08.
- Assemblies of 3MTM Air and Vapor Barrier 3015 and 3MTM Polyurethane Construction Sealant 525 or 3MTM Polyurethane Sealant 540 meet the requirements of ASTM E2357 and CAN/ULC-S742-11.
- Compatible with many building sealants: No adverse reaction with synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants.
- Service Temperature from -40° to 176°F (-40° to 80°C).
- Can be applied to substrates from 0° to 150°F (-18° to 66°C).
- Meets the criteria to contribute to the Environmental Quality ("EQ") Credit 4.1: Low-Emitting Materials: Adhesives & Sealants under the United States Green Building Council's Rating System for New Construction and Major Renovations (LEED-NC), Version 2.2, Core and Shell (LEED-CS), Version 2.0 and Commercial Interiors (LEED-CI), Version 2.0.
- Impermeable to air, moisture vapor and water.
- 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 representative or refer to 3M Technical Bulletins on 3MTM Air and Vapor Barrier 3015 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.
- Multilayer Elastomeric Film seals around nails and staples to prevent moisture intrusion.
- Resists UV exposure for up to 6 months.
- Membrane has measurement markings at 6 inch grid intersections for ease in alignment and cutting.

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Application Ideas

- Designed for use as a self-adhered air, vapor and water barrier for new and remedial commercial and residential applications.
- Can be installed onto exterior wall sheathing and behind exterior cladding.
- Can be used to transition the building envelope from one substrate to another, or other openings and penetrations.

Surface Preparation

- To obtain the best adhesion, 3MTM Air and Vapor Barrier 3015 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 3M air and vapor barrier 3015 can be applied as low as 0°F (-18°C), surfaces must be clear of snow, ice or frost.
- 3M air and vapor barrier 3015 adheres to most common building materials. For difficult to stick to surfaces, test adhesion before application. If needed, apply 3MTM Hi-Strength 90, 3MTM Hi-Strength 94 ET Spray Adhesive, 3MTM Scotch-WeldTM Holdfast 70, or 3MTM FastbondTM 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 3MTM Air and Vapor Barrier 3015 Specification Guide for detailed application information.
- 3M air and vapor barrier 3015 must be lapped a minimum of 2" on sides and ends. Cut membrane to desired length and wind up into a roll for easy handling. Fold the starting edge back over itself to crease the paper release liner. Peel back the liner to expose a starting 2-3 inch adhesive strip.
- 3M air and vapor barrier 3015 does not need a primer on most construction surfaces. It is ready to apply as soon as the release liner is removed. The adhesive is very aggressive and quickly bonds to substrates. Do not contaminate the starting strip 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 simultaneously pulling the release liner, 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.
- 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.

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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.
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