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Technical Data Sheet

3M™ Air Barrier with Non-Woven Permeable Backing 3015VP-NW

Product Description

3M™ Air Barrier with Non-Woven Permeable Backing 3015VP-NW is a water vapour permeable membrane that employs a high-performance acrylic pressure sensitive adhesive PSA with a controlled bond, building to full strength over time. The membrane does not require the use of a primer on most construction surfaces.

Product Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741.
- Passes Water Resistance Test AATCC (55 cm of water for 5 hours).
- Passes Low Temperature Flexibility after 4 hours at -29 °C as per ASTM D1970 Sec 7.6
- Service temperature from -40 ° to 210 °F (-40 ° to 90 °C).
- Can be applied to substrates from 0 ° to 150 °F (-18 ° to 66 °C).
- Resists UV exposure for up to 9 months.
- No adverse reaction with most building sealants, including: synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants.
- Excellent adhesion to concrete, concrete block, anodised aluminium, galvanised metal, plywood and most exterior grade fibglass mat gypsum boards without the use of a 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, which can extend the construction season in many climates.
- Adhesive strength builds over time once pressure is applied.
- Seals around nails and staples to prevent moisture intrusion.

Typical Physical Properties

Attribute Name	Test Method	Value
Colour		Black with Grey Print
Adhesive Type		Acrylic
Backing		Non-woven composite
Total Thickness (Coated Membrane)	ASTM D3652	0.5 mm (20 mil)
Liner		Polyester

Attribute Name	Test Method	Environmental Condition	Test Condition	Value
Water Vapour Transmission	ASTM E96		Dry Cup	17
Wall Assembly Fire Test	NFPA 285			Pass[1]
Nail Sealability	ASTM D1970	127 mm (5 inches) water head after 3 days		Dry/Pass
Air Leakage of assembled wall	ASTM E2357		Opaque wall @ 75 Pa (0.3 in/wg.)	0.007 L/s/m² (0.001 cfm/ft²)
Air Leakage of assembled wall	CAN/ULC S742			0.017 L/s/m² (0.003 cfm/ft²)[2]
Air Permeance of membrane	ASTM E2178		@ 75 Pa (0.3 in/wg.)	<0.001 L/s/m² (<0.0001 cfm/ft²)

[1] Pass as part of various assemblies with foam plastic insulation [2] Penetrated wall @ 75 Pa (0.3 in/wg.)

Typical Performance Characteristics

Attribute Name	Test Method	Dwell Time	Temperature	Substrate	Value
Tensile Strength (Coated Membrane)	ASTM D882				6 N/mm (34 lb/in)
Lap Adhesion	ASTM D3330				0.163 N/mm (15 oz/in)
180° Peel Adhesion	ASTM D3330	24 h	23 °C (73 °F)	Concrete	0.47 N/mm (43 oz/in)[1]
180° Peel Adhesion	ASTM D3330	24 h	23 °C (73 °F)	Exterior Grade Gypsum Board	0.348 N/mm (32 oz/in)[1]
Elongation at Break					18 %

[1] 300 mm/min (12 in/min)

Attribute Name	Test Method	Value
Flame Spread Index	ASTM E84	5
Smoke Developed Index	ASTM E84	30
Flame Spread Index	CAN/ULC S102	10
Smoke Developed Index	CAN/ULC S102	30
Rating	ICC AC 38	Class A

Handling/Application Information

Surface Preparation

- To obtain the best adhesion, 3M™ Air Barrier 3015VP-NW should be installed when outdoor temperatures range from 0 °F (-18 °C) to 150 °F (66 °C). Roll conditioning can improve initial bond but is not required.
- Surfaces should be clean, free from dirt and debris and not have 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.

Application Techniques

- Refer to 3M air barrier installation guides for detailed application information.
- Must be lapped a minimum of 2" on sides and ends.
- Inside and outside corners should include a double layer covering 3" in each direction.
- No primer is needed on most construction surfaces.
- Once aligned, 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. 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.
- Detailing should be performed with 3M™ Non-Permeable Air Barrier 3015NP, 3M™ Through Wall Flashing 3015TWF, 3M™ Ultra Conformable Flashing Tape 3015UC, or 3M™ Vapor Permeable Air Barrier 3015VP.

Industry Specifications

CAN/ULC S741

Storage and Shelf Life

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

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ISO Statement

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

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