SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

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TECHNICAL DOCUMENTS

## 인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

### 제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

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본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.



English

**Last Revision Date:** March, 2017

# Technical Data Sheet

3M™ Air and Vapor Barrier 3015

Product Details

Regulatory Info/SDS

## Product Description

3M™ 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. It even adheres to damp surfaces. This product has a unique acrylic pressure sensitive adhesive that aggressively sticks and stays stuck both at lower and higher application temperatures than traditional air barrier products.

The proprietary backing seals around hand driven nails and staples to prevent moisture intrusion. This backing is also tough, resists punctures and tears, yet it is thin to fit conveniently into corners.

## Product Features

• Meets the requirements of ASTM E2178 and CAN/ULC S741-08.
• Assemblies of 3M™ Air and Vapor Barrier 3015 and 3M™ Polyurethane Construction Sealant 525 or 3M™ 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 240°F (-40° to 116°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 3M™ 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 12 months.
• Membrane has measurement markings at 6 inch grid intersections for ease in alignment and cutting.

## 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 | Test Method | Value |
|---|---|---|
| Color | | Tan, Semi-Translucent |
| Adhesive Type | | Acrylic |
| Backing | | Multilayer Elastomeric Film |
| Total Thickness (Coated Membrane) | ASTM D3652 | 0.25 mm (10 mil) |
| Liner | | Polycoated Kraft |
| Backing Thickness | ASTM D3652 | 0.13 mm (5 mil) |

| Attribute Name | Test Method | Test Condition | Value |
|---|---|---|---|
| Water Vapor Transmission | | Water Method | 15 ng/s/m²/Pa (0.26 US Perms) |
| Water Vapor Transmission | | Desiccant Method | 8 ng/s/m²/Pa (0.14 US Perms) |

| Attribute Name | Test Method | Test Condition | Value |
|---|---|---|---|
| Air Leakage of assembled wall | ASTM E2357 | Opaque wall @ 75 Pa(0.3 in/wg.) | <0.01 L/s/m² (<0.002 cfm/ft²) |
| Air Leakage of assembled wall | ASTM E2357 | Penetrated wall @ 75 Pa(0.3 in/wg.) | <0.03 L/s/m² (<0.006 cfm/ft²) |
| Air Leakage Rate Classification | CAN/ULC-S742 | | A1 |
| Air Permeance of membrane | ASTM E2178 | @ 75 Pa(0.3 in/wg.) | <0.0002 L/s/m² (<0.00005 cfm/ft²) |
| Wall Assembly Fire Test | NFPA 285 | | Pass [1] |

[1] Pass as part of various assemblies with foam plastic insulation

| Attribute Name | Test Method | Environmental Condition | Value |
|---|---|---|---|
| Water Resistance | AATCC 127 (deviated) | 55 cm (21.6 inches) of water for 5 hours | No leakage |
| Nail Sealability | ASTM E331 | After Thermal Cycling | Pass |
| Nail Sealability | ASTM D1970 | 127 mm(5 inches) water head after 3 days | Dry/Pass |
| Nail Sealability | ASTM E331 | Initial | Pass |

## Typical Performance Characteristics

| Attribute Name | Test Method | Value |
|---|---|---|
| Lap Adhesion | ASTM D3330 | 4.4 N/cm (40 oz/in) |
| Pull Adhesion | ASTM D4541 | 0.11 MPa (16 lb/in²) |

### Low Temperature Flexibility

Temperature: -30 °C (-22 °F)
Test Method: ASTM D1970

| Value |
|---|
| Pass [1] |
| No Leakage [2] |

[1] Bend Test
[2] Water Head Test

Test Method: ASTM D882

| Attribute Name | Value |
|---|---|
| Elongation at Break | 700 % |
| Tensile Strength (Coated Membrane) | 12 MPa (1740 lb/in²) |

| Attribute Name | Test Method | Value |
|---|---|---|
| Rating | ICC AC 38 | Class A |
| Smoke Developed Index | ASTM E84 | 45 |
| Flame Spread Index | ASTM E84 | 15 |

## Handling/Application Information

### Surface Preparation

• To obtain the best adhesion, 3M™ 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 3M™ Hi-Strength 90, 3M™ Hi-Strength 94 ET Spray Adhesive, 3M™ Scotch-Weld™ Holdfast 70, 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 Examples

• 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.

### Application Techniques

• Refer to 3M™ 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.

## Industry Specifications

CAN/ULC S741-08
CAN/ULC-S742-11
• 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.

## Storage and Shelf Life

Optimum storage conditions are 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.
To obtain best performance, use this product within 24 months from date of manufacture.

## Available Sizes - Detailed

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

Roll Weight Theoretical Coverage
18" by 75 ft 10.5 lbs (4.8 kg) 106 ft² (9.8 m²)
36" by 75 ft 21 lbs (9.5 kg) 212 ft² (19.7 m²)
48" by 75 ft 28 lbs (12.7 kg) 282 ft² (26.2 m²)

## Information

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## ISO Statement

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

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