



Technical Data Sheet

3M™ Sealing Tape 8777



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Sealing Tape 8777 is a self-adhered, waterproof membrane designed for sealing on difficult to stick to surfaces. This product has a unique acrylic pressure sensitive adhesive that aggressively sticks and stays stuck both at lower and higher application temperatures. The proprietary backing seals around hand driven nails and staples to prevent moisture intrusion. This backing is tough, resists punctures and tears, yet it is thin and conformable to fit conveniently into corners.

Product Features

- Nail Sealability: Passes ASTM E331/547 (per AAMA 711-07, Annex 1) both before and after thermal cycling.
- 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 & Major Renovations (LEED-NC), Version 2.2, Core and Shell (LEED-CS), Version 2.0, and Commercial Interiors (LEED-CI), Version 2.0.
- High tack adhesive sticks and stays stuck to many difficult to stick to surfaces.
- Unique adhesive adheres to damp surfaces.
- Adhesive provides an unique combination of both cold temperature and hot temperature adhesion to most substrates.
- No adhesive melting or staining in summer heat.
- Proprietary backing seals around nails and staples to prevent moisture intrusion.
- Unique backing is thin and conformable to conveniently fit into corners.
- Tough backing resists punctures and tears during application.
- Resists UV exposure for up to 12 months.
- Can be installed at temperatures as low as 0°F (-18°C) and as warm as 120°F (49°C).
- Compatible with many building sealants: No adverse reaction with synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants.
- Split release liner provides fast application with easy and accurate positioning of the tape.

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	Environmental Condition	Value
Color			Tan
Adhesive Type			Acrylic
Backing			Proprietary Film
Water Vapor Transmission	ASTM E96		0.19 US Perms
Wall Assembly Fire Test	NFPA 285		5 ¹
Nail Sealability	ASTM E331	Initial	Pass
Nail Sealability	ASTM D1970	127 mm(5 inches) water head after 3 days	Dry/Pass
Nail Sealability	ASTM E331	After Thermal Cycling	Pass

¹ Pass as part of various assemblies with foam plastic insulation

Attribute Name	Test Method	Value
Total Tape Thickness	ASTM D3652	0.25 mm (9.9 mil)
Liner		Heavy Paper, split

Typical Performance Characteristics

90° Peel Adhesion

Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
72 h	22 °C (72 °F)	OSB	6.6 N/cm (60 oz/in) ¹
72 h	22 °C (72 °F)	High Density Polyethylene (HDPE)	6.6 N/cm (60 oz/in) ¹
72 h	22 °C (72 °F)	Housewrap (Spun bonded polyethylene)	5.5 N/cm (50 oz/in) ¹
7 d	80 °C (176 °F)	Anodized Aluminum	7.7 N/cm (70 oz/in) ¹

¹ 12 in/min (300 mm/min)

Attribute Name	Test Method	Value
Application Temperature		-18-49 °C (0 to 120 °F)
Service Temperature Range	AAMA 711-05	-40-116 °C (-40-240 °F)
Elongation at Break	ASTM D882	>700 %
Flame Spread Index	ASTM E84	25

Typical Environmental Performance

90° Peel Adhesion

Substrate: Anodized Aluminum

Test Method: ASTM D3330

Dwell Time	Environmental Condition	Value
7 d	Water	7.1 N/cm (65 oz/in) ¹
	After Thermal Cycling	8.2 N/cm (75 oz/in) ¹
	After UV Exposure	6.6 N/cm (60 oz/in) ¹

¹ 12 in/min (300 mm/min)

Handling/Application Information

Surface Preparation

3M™ All Weather Flashing Tape 8067 is intended to provide a weatherproof seal around openings and penetrations in exterior walls when installed in accordance with these guidelines. The following conditions apply to the use of 3M™ All Weather Flashing Tape 8067:

- Installation Temperature Range: To obtain the best adhesion, 3M™ All Weather Flashing Tape 8067 should be installed when outdoor temperatures range from 0°F (-18°C) up to 120°F (49°C) over clean surfaces that are free from dirt and debris and have not absorbed water. Surfaces should be free of any damaged, unsupported areas, sharp protrusions or voids.
- Adheres to most common building materials. For difficult to stick to surfaces, test flashing tape adhesion before application. Use 3M™ Hi-Strength 90 Spray Adhesive to prime the substrate as needed prior to applying the flashing tape.
- To apply, peel back a few inches of one side of the split paper release liner to position the tape. Remove the liner while applying firm pressure to the flashing tape surface as it comes into contact with the building surface. Repeat this procedure with the remaining side of the paper release liner and tape. Using a roller (rubber, wood or steel "J" roller) apply sufficient pressure along the entire tape surface to ensure a continuous seal and to eliminate trapping air beneath the tape.
- Environmental Conditions: may remain exposed to direct sunlight for up to 6 months.
- Warning: The paper release liner is slippery and should not be walked on at any time. Discard the paper release liner in a designated container.

Application Examples

- Sealing joints around sills, jambs and heads of rectangular windows in wood frame construction.
- Sealing around other wall interruptions in non-roof areas, such as thresholds, dryer vents and hose bibs.
- When installed properly as a concealed flashing in vertical walls in frame construction, it prevents moisture intrusion and avoids the problems caused by water infiltration.

Industry Specifications

- Nail Sealability: Passes ASTM E331/547 (per AAMA 711-07, Annex 1) both before and after thermal cycling.
- 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 & 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

Store under normal conditions of 60-80°F (16-27°C) and 40-60% R.H. in the original carton.
To obtain best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	22.8 m (25 yd)

Available Sizes - Detailed

Available in rolls of three widths:

4 inches x 75 feet (101 mm x 22.8 m) 12 rolls/case
6 inches x 75 feet (152 mm x 22.8 m) 8 rolls/case
9 inches x 75 feet (228 mm x 22.8 m) 4 rolls/case

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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