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3M™ Sealing Tape 8777

Last Revision Date: June, 2011

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

Property	Values	Additional Information
Backing	Proprietary Film	
Adhesive Type	Acrylic	
Liner	Heavy Paper, split	
Color	Tan	
Total Tape Thickness (mil)	9.9 mil	View

Test Method: ASTM D3652

Total Tape Thickness (mm)	0.25 mm	View 
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Test Method: ASTM D3652


Water Vapor Transmission	0.19 Perms	View 
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Test Method: ASTM E96

Nail Sealability	Dry/Pass	View 
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Test Method: ASTM D1970

Environmental Condition: 127 mm(5 inches) water head after 3 days

Nail Sealability	Pass	View 
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Test Method: ASTM E331

Environmental Condition: Initial

Nail Sealability	Pass	View 
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Test Method: ASTM E331

Environmental Condition: After Thermal Cycling

Wall Assembly Fire Test	5	View 
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Test Method: NFPA 285

Notes: Pass as part of various assemblies with foam plastic insulation

Typical Performance Characteristics

Property	Values	Additional Information
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90° Peel Adhesion	5.5 N/cm	View 
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Test Method: ASTM D3330

Substrate: Housewrap (Spun bonded polyethylene)

90° Peel Adhesion	50 oz/in	View 
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Test Method: ASTM D3330

Substrate: Housewrap (Spun bonded polyethylene)

90° Peel Adhesion	6.6 N/cm	View 
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Test Method: ASTM D3330

Substrate: High Density Polyethylene (HDPE)

90° Peel Adhesion	60 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Substrate: High Density Polyethylene (HDPE)</p>		
90° Peel Adhesion	6.6 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Substrate: OSB</p>		
90° Peel Adhesion	60 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 72.0</p> <p>Dwell Time Units: hr</p> <p>Substrate: OSB</p>		
90° Peel Adhesion	7.7 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 7.0</p> <p>Dwell Time Units: day</p> <p>Temp C: 80C</p> <p>Temp F: 176F</p> <p>Substrate: Anodized Aluminum</p>		
90° Peel Adhesion	70 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 7.0</p> <p>Dwell Time Units: day</p> <p>Temp C: 80C</p> <p>Temp F: 176F</p> <p>Substrate: Anodized Aluminum</p>		
90° Peel Adhesion	7.1 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 7.0</p> <p>Dwell Time Units: day</p> <p>Environmental Condition: Water</p> <p>Substrate: Anodized Aluminum</p>		
90° Peel Adhesion	65 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 7.0</p> <p>Dwell Time Units: day</p> <p>Environmental Condition: Water</p> <p>Substrate: Anodized Aluminum</p>		
90° Peel Adhesion	8.2 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Environmental Condition: After Thermal Cycling</p> <p>Substrate: Anodized Aluminum</p>		
90° Peel Adhesion	75 oz/in	View 


Test Method: ASTM D3330

Environmental Condition: After Thermal Cycling
Substrate: Anodized Aluminum

90° Peel Adhesion 6.6 N/cm View 


Test Method: ASTM D3330

Environmental Condition: After UV Exposure
Substrate: Anodized Aluminum


90° Peel Adhesion 60 oz/in View 

Test Method: ASTM D3330


Environmental Condition: After UV Exposure
Substrate: Anodized Aluminum

Elongation at Break >700 % View 

Test Method: ASTM D882

Service Temperature Range -40-116 °C View 

Test Method: AAMA 711-05

Service Temperature Range -40-240 °F View 

Test Method: AAMA 711-05

Application Temperature -18-49 °C

Application Temperature 0 to 120 °F

Surface Burning Characteristics 25 View 

Test Method: ASTM E84

Test Name: Flame Spread Index

Available Sizes

Property	Values	Additional Information
Standard Roll Length	22.8 m	
Standard Roll Length	25 yd	

Available Sizes

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

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.

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.

Bottom Matter

3M

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Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

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.

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.

References

Property

Values

3m.com Product Page

https://www.3m.com/3M/en_US/p/d/b40071830/

Safety Data Sheet SDS

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=8777

Family Group

Link Tags:

[8777](#)

Products	Backing	Adhesive Type	Liner	Color	Total Tape Thickness (mm)
8777	Proprietary Film	Acrylic	Heavy Paper, split	Tan	0.25 mm

ISO Statement

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

Information

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