



Technical Data Sheet

3M™ Permeable Liquid Flashing Membrane 3015LF



[Regulatory Info/SDS](#)

Product Description

3M™ Permeable Liquid Flashing Membrane 3015LF is a commercial grade Silyl Terminated Polyether (STPE) based vapor permeable liquid flashing that is designed for detailing windows, doors, pipe penetrations and other building fenestrations. It can be applied on vertical, horizontal, or overhead surfaces.

It is designed to be applied to common building substrates that are dry or damp at temperatures from 25° to 100°F. Combining 3M Permeable Liquid Flashing Membrane 3015LF with 3M™ Vapor Permeable Air Barrier 3015VP as a wall membrane creates a vapor permeable building system.

Product Features

- 25 Perms Desiccant Method (A) - ASTM E96
- VOC content<100 g/L
- Performs well in cold temperatures as well as high heat and humidity conditions
- Adheres to damp surfaces
- 12 month UV resistance
- Exceeds AAMA 714 Voluntary Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings
- Non-shrinking
- Final cured product is compatible with many building sealants: No adverse reaction with synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants.
- Can be applied from 25° to 100°F (- 4° to 38°C)
- Service temperature from -40° to 240°F (- 40° to 116°C)
- Excellent adhesion to concrete, concrete block, steel, exterior gypsum sheathing, and wood without the use of any primer.
- Liquid Flashing provides a unique combination of both cold and hot temperature adhesion to most substrates, which can extend the construction season in many climates.
- Fast curing technology which cures quickly – rainproof in 60 minutes; full cure in 24 hours.

When referencing the AAMA 200-12 (windows) and/or 400-13 (doors) standards, the 3M solutions for these standards include:

- 3M™ Permeable Liquid Flashing Membrane 3015LF, an STPE-based membrane, brush/roller-grade liquid flashing
 - 3M™ Adhesive Sealant 740UV, a STPE-base, gun-grade, non-sag waterproofing sealant
- Together, these STPE-based materials allow for wet-on-wet applications and minimize downtime.

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	Test Condition	Value
Color				White
Composition				STPE Liquid base membrane
Air Permeance of membrane	ASTM E2178		@ 75 Pa(0.3 in/wg.)	<0.0003 L/s/m ² (<0.00006 cfm/ft ²)
Water Resistance	AATCC 127 (deviated)	55 cm (21.6 inches) of water for 5 hours		PASS

Typical Performance Characteristics

90° Peel Adhesion

Temperature: 23 °C (73 °F)

Dwell Time: 72 h

Test Method: ASTM D4541

Substrate	Backing	Value
Concrete		22.3 N/cm (203.7 oz/in) ¹
Exterior Grade Gypsum Board		*5.08 N/cm (*46.4 oz/in) ¹
Stainless Steel	2 mil PET	25.4 N/cm (231.7 oz/in) ²
Wood		14 N/cm (127.7 oz/in) ¹

¹ *Separated fiberglass facer mat from gypsum core.

² 304 mm/min (12 in/min)

Pull Adhesion

Test Method: ASTM D4541

Substrate	Value
Concrete	1,137.6 kPa ¹
Method B Exterior Gypsum Board	339 kPa ¹

¹ Air Leakage of assembled wall: Min 110 kPa

Attribute Name	Test Method	Value
Rating	ICC AC 38	Class A
Smoke Developed Index	ASTM E84	0
Flame Spread Index	ASTM E84	15

Handling/Application Information

Directions for Use

SURFACE PREPARATION

- To obtain the best adhesion, 3M™ Permeable Liquid Flashing Membrane 3015LF should be applied when temperatures range from 25° to 100°F (-4° to 38°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 it can be applied as low as 25°F (-4°C) surfaces must be clear of snow, ice or frost.
- Must be lapped a minimum of 2" with air barrier.

MIXING

Thoroughly mix the entire container of liquid flashing with a slow-speed (200 to 400 rpm) mechanical mixer (electric drill with a mixing paddle) for two minutes or stick stir until the liquid flash has a consistent white color.

APPLICATION

Fill gaps and cracks exceeding 1/8" width with 3M™ Adhesive Sealant 740 UV, and tool the surface flush and smooth. Fill gaps exceeding 1/2" width with closed cell foam backer rod or a foam seal. Then with 3M™ Adhesive Sealant 740 UV, and tool the surface flush and smooth.

After mixing the liquid flash, apply to a clean prepared surface using a at least a 3/8" (8.5 mm) nap roller with rounded edges or 2" (50 mm) or wider brush. 3015LF can also be spray applied.

Apply a minimum of 50 mils (1.27 mm) of liquid flashing onto the horizontal pan or sill surface and a minimum of 10 mils (0.254 mm) of liquid flashing onto the vertical surface. Test the thickness using a wet mil gauge. Make sure material contains of no pinholes and is void-free and undamaged.

Apply pail cover when not in use to prevent the liquid flash from skinning over. Extend surface preparation a minimum of 2" (50 mm) beyond the termination of the flashing.

STUCCO ADHESION

Adhesion of stucco to 3M™ Permeable Liquid Flashing Membrane 3015LF has been tested in lab conditions using washed Mason Sand broadcast until rejection. Pull adhesion of >30 lbf/sqin was achieved. Adhesion will vary with substrate condition and type of sand. Adhesion testing must be done by installation contractor with actual lots of sand to ensure satisfactory results prior to application.

Application Examples

- Window openings
- Pipes and penetrations
- I-beams and posts
- Complex details
- Details that are difficult to flash with a sheet membrane

Storage and Shelf Life

Store under normal conditions of 4° to 27°C (40° to 80°F) and 40 to 50% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 12 months from date of manufacture. Use opened pail within three weeks of open date.

Available Sizes

Attribute Name	Value
Packaging	2 gallon pail

Information

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