

# GAF LRF Adhesive M

Insulation and Fleece-back Membrane Adhesive



## Description:

LRF Adhesive M is a two-component, low-VOC, multi-purpose, low-rise, polyurethane foamable insulation and fleece-back membrane adhesive. It adheres a variety of insulation and cover board stocks to most roof substrates in both new and reroof applications, including jobs that require multiple insulation layers. It can also secure fleece-back single-ply membranes.

## Features and Benefits:

- Low-odor, low-VOC
- Compatible with various substrates
- Available in different packaging to accommodate any size job
  - 1500 ml cartridges
  - 5 gal. bag-in-box
  - 15 gal. drum
  - 50 gal. drum
- Quick cure time
- Can help with filling minor surface irregularities
- Helps minimize deck corrosion and reduces thermal bridging

## Compatible Roof Decks and Substrates\*:

- Structural concrete
- Modified bitumen membranes and base sheets (sanded or granule-surfaced)\*
- Smooth or gravel surface built-up roof (re-roof applications)
- Lightweight insulating concrete
- Cementitious wood fiber
- Gypsum

## Compatible Roof Insulations and Cover Boards:

- Polyisocyanurate (flat 4'x4' or tapered)
- HD (high-density) polyiso cover board (4'x4')
- High-density wood fiber
- Gypsum cover boards (4'x4' or 4'x8')
- Most extruded polystyrene (XPS) (check with manufacturer for compatibility)\*
- Most expanded polystyrene (EPS) (check with manufacturer for compatibility)\*
- Asphaltic cover boards

## Codes and Compliance:

- FM Approved per Approval Standard 4470. Refer to RoofNav.com for approved assemblies.
- Miami-Dade County Product Control Approved
- Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies
- State of Florida Approved



## Storage and Handling:

- Shelf life of 18 months from the date of manufacture when stored in upright position in original, unopened containers at 60° F - 90° F (15.6° C - 35° C)
- Storage temperatures above the recommended range will shorten shelf life
- Store in a covered, secure location
- Keep from freezing
- Product stored below 60° F (15.6° C) must be given sufficient time (minimum 24 hrs.) for the adhesive to warm to minimum 70° F (21.1° C) prior to use
- Do not store in direct sunlight or temperatures above 95° F (35° C)

*\* For complete substrate preparation and application instructions for GAF guarantee-eligible systems, please consult the applicable system installation and specification manual available at [gaf.com](http://gaf.com). Not all uses of this adhesive with these substrates will comply with applicable codes. For installations that comply with applicable codes, refer to agency listings.*



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Insulation and Fleece-Back Membrane						
Product	GAF LRF Adhesive M	GAF LRF Adhesive M	GAF LRF Adhesive M	GAF LRF Adhesive M	TPO LRF Adhesive M	TPO LRF Adhesive M
Delivery Method	Cartridge	5 gal. Bag-in-Box	15 gal. Drum	50 gal. Drum	Low Temp Cartridge	LTA Cartridge
Item Codes	418H	Part A: 418K Part B: 418L	418P (Parts A & B)	418Q (Parts A & B)	418V	418001
Compatible Substrates	Structural Concrete/Gypsum/Cementitious Wood Fiber/Lightweight Insulating Concrete/>22 Gauge Steel (insulation and cover boards only)/ Wood/Smooth or Granule Surfaced BUR/Vapor Retarders/Base Sheets/Insulation and Cover Boards*					
Ambient/Surface Install Temperature	40° F and rising	40° F and rising	40° F and rising	40° F and rising	25° F and rising	25° F and rising
Storage Temperature	Cool, dry 45° F - 95° F	Cool, dry 45° F - 95° F	Cool, dry 45° F - 95° F	Cool, dry 45° F - 95° FF	Cool, dry 45° F - 95° F	Cool, dry 45° F - 95° F
Shelf Life	18 mos @ proper storage temperatures	18 mos @ proper storage temperatures	18 mos @ proper storage temperatures	18 mos @ proper storage temperatures	18 mos @ proper storage temperatures	18 mos @ proper storage temperatures
Coverage Rate Per Case/Set at 12" o.c. to Polyiso	Approx. 600 sq. ft./ 4 - 6 squares per case	Approx. 2,500 - 3,000 sq. ft./25 - 30 squares per set	Approx. 7,500 - 9,000 sq ft./75 - 90 squares per set	Approx. 25,000 - 30,000 sq ft./250 - 300 squares per set	Approx. 600 sq. ft./ 4 - 6 squares per case	Approx. 600 sq. ft./ 4 - 6 squares per case
Spacing	3/4" - 1" Max 12" o.c. Fleece back Membrane 1/2" - 3/4" Max 12" o.c. Insulation Board	3/4" - 1" Max 12" o.c. Fleece back Membrane 1/2" - 3/4" Max 12" o.c. Insulation Board	3/4" - 1" Max 12" o.c. Fleece back Membrane 1/2" - 3/4" Max 12" o.c. Insulation Board	3/4" - 1" Max 12" o.c. Fleece back Membrane 1/2" - 3/4" Max 12" o.c. Insulation Board	3/4" - 1" Max 12" o.c. TPO Fleece back Membrane 1/4" - 1/2" Max 12" o.c.	3/4" - 1" Max 12" o.c. TPO Fleece back Membrane 1/4" - 1/2" Max 12" o.c.
Tack/Setup Time @ approx. 70° F	3 - 5 mins Tack Time/ 10 - 12 mins Setup Time depending on ambient temperature	3 - 5 mins Tack Time/ 10 - 12 mins Setup Time depending on ambient temperature	3 - 5 mins Tack Time/ 10 - 12 mins Setup Time depending on ambient temperature	3 - 5 mins Tack Time/ 10 - 12 mins Setup Time depending on ambient temperature	3 - 5 mins Tack Time/ 10 - 12 mins Setup Time depending on ambient temperature	3 - 5 mins Tack Time/ 10 - 12 mins Setup Time depending on ambient temperature
Dispensing Unit	Handheld or powered cartridge applicator gun	Bulk adhesives dispensed by low-pressure pump cart	Bulk adhesives dispensed by low-pressure pump cart	Bulk adhesives dispensed by high-pressure pump cart	Handheld or powered cartridge applicator gun	Handheld or powered cartridge applicator gun
Packaging type per set	4 sets of 1.5 L cartridges	10-gallon (5-gallon part A, 5-gallon part B) bag-in-box	30-gallon (15-gallon part A, 15-gallon part B) bag-in-box	100-gallon (50-gallon part A, 50-gallon part B) bag-in-box	4 sets of 1.5 L cartridges	4 sets of 1.5 L cartridges
VOC Content	32 g/L (after mixing using USEPA Test Method 24)	32 g/L (after mixing using USEPA Test Method 24)	32 g/L (after mixing using USEPA Test Method 24)	32 g/L (after mixing using USEPA Test Method 24)	18 g/L (after mixing using USEPA Test Method 24)	18 g/L (after mixing using USEPA Test Method 24)
Weight per Product	20 lbs per carton (4 per case)	54 lbs (part A) 46 lbs (part B)	174 lbs (part A) 150 lbs (part B)	552 lbs (part A) 472 lbs (part B)	20 lbs per carton (4 per carton)	20 lbs per carton (4 per carton)

\*To ensure substrate compatibility, adhesion testing is recommended. For instructions on proper usage of this product, please refer to the EverGuard® TPO/PVC Adhered Roofing System Overview & General Requirements Manual.

## EXAMPLES OF PROPER ADHESIVE RATIO FOR BEAD APPLICATIONS



Good ratio of Part A / Part B

Beige color.  
Low-rise, tacky foam after cure



Too much of Part A

Slow to rise/ no reaction.  
Yellow in color.  
Brittle foam after cure.



Too much of Part B

Very fast reaction/ skin over.  
White/beige in color.  
Soft, flexible foam after cure



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