



OlyBond500® AdhesiveFastener

Low-Rise Foam Adhesive



Description:

OlyBond500® Adhesive Fastener 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.

Features and Benefits:

- Low-odor, low-VOC — excellent for sensitive areas, such as schools, office buildings, and hospitals
- Compatible with various substrates
- Available in different packaging to accommodate any size job (available in regular and winter grade formulations)
 - 1,500 ml cartridges
 - 5 gal. bag-in-box
 - 15 gal. drum
 - 50 gal. drum
- Quick cure time
- Can help with filling minor surface irregularities
- Helps reduce thermal bridging
- Non-penetrating system which can help reduce construction noise

Compatible Roof Decks and Substrates*:




(Properly evaluated and prepared.)

- Base sheets (sanded)
- Cementitious wood-fiber plank
- Existing sprayed-in-place polyurethane foam†
- Gypsum
- Lightweight insulating concrete
- Modified bitumen (granulated or sanded, no poly film)
- Most vapor retarders (including asphaltic and fleece-top)
- Plywood (5/8" [15.9 mm] thick min.)
- Smooth and granule-surfaced BUR — Built Up Roof (reroofing applications: existing gravel surface needs to be swept and cleaned)
- Steel (22-gauge or thicker with approved cross-section)
- Structural concrete

Compatible Roof Insulation and Cover Board*:

- Polyiso insulation — 4' x 4' (1.22 m x 1.22 mm), flat or tapered boards only
- HD (high-density) polyiso cover board (4' x 4' [1.22 m x 1.22 mm], boards only)
- High-density wood fiber
- Gypsum cover boards (4' x 4' [1.22 m x 1.22 mm] or 4' x 8' [1.22 m x 2.44 m])
- Asphaltic cover boards
- Most extruded polystyrene (XPS) (check with manufacturer for compatibility)
- Most expanded polystyrene (EPS) (check with manufacturer for compatibility)

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	

Product Information:

- Shelf life of 18 months from the date of manufacture when stored in upright position in original, unopened containers at 55°F – 85°F (12.8°C – 29.4°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. 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.

† Needs to have waterproofing layer removed/scarified so that surface is smooth and level to offer a level substrate.

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We protect what matters most™





OlyBond500® AdhesiveFastener

Low-Rise Foam Adhesive

Insulation and Fleece-Back Membrane

Product	Olybond500® Adhesive Fastener			
Delivery Method	Cartridge	5 gal. Bag-in-Box	15 gal. Drum	50 gal. Drum
Item Codes	■ 417K (Reg.) ■ 417P (Winter)	Part 1: ■ 4182 (Reg.) ■ 418A1 (Winter)	Part 1: ■ 417H015 (Reg.) ■ 41701 (Winter)	Part 1: ■ 417007 (Reg.) ■ 417009 (Winter)
		Part 2: ■ 4183 (Reg.) ■ 418A2 (Winter)	Part 2: ■ 417I015 (Reg.) ■ 41702 (Winter)	Part 2: ■ 417008 (Reg.) ■ 417010 (Winter)
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 (Reg.) ■ 0°F – 65°F (Winter)	■ 40°F and rising (Reg.) ■ 25°F – 65°F (Winter) — Bag In Box / 15 gal. Drum / 50 gal. Drum only		
Storage Temperature	Cool, dry 55°F – 85°F			
Shelf Life	18 mos. at proper storage temperatures			
Coverage Rate per Case / Set at 12" o.c. Bead†	Up to 600 sq. ft./ 4 – 6 squares per case	Up to 2,500 sq. ft./ 25 squares per set	Up to 7,500 sq ft./ 75 squares per set	Up to 25,000 sq ft./ 250 squares per set
Spacing/Spatter	¾" – 1" Max 12" o.c. Insulation Board		¾" – 1" Max 12" o.c. bead / 0.318 gal. / Square spatter Fleece-Back Membrane	
Tack/Setup Time @ Product Temperature of 72°F	Tack time: ■ 3 – 5 min. (Reg.) ■ 3 – 4 min. (Winter) Setup time: 10 – 12 min. Setup time depending on ambient temperature.			
Dispensing Unit	Handheld or powered cartridge applicator gun	Bulk adhesives dispensed by PaceCart 3™ or other type low-pressure pump cart		
Packaging Type per Set	4 sets of 1.5 L cartridges	10 gal. bag-in-box (5 gal. Part 1 / 5 gal. Part 2)	30 gal. Drum (15 gal. Part 1 / 15 gal. Part 2)	100 gal. Drum (50 gal. Part 1 / 50 gal. Part 2)
VOC Content (after mixing using USEPA Test Method 24)	■ 11 g/L (Reg.) ■ 50 g/L (Winter)			
Weight per Product	18 lb. per carton (4 per case)	■ 53 lb. (Part 1) ■ 45 lb. (Part 2)	■ 162 lb. (Part 1) ■ 136 lb. (Part 2)	■ 513 lb. (Part 1) ■ 425 lb. (Part 2)

*To ensure substrate compatibility, adhesion testing is recommended. 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.

† Coverage rates are approximate and provided for guidance purposes only. Actual coverage may depend upon substrate and installation methods.

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OlyBond500[®]

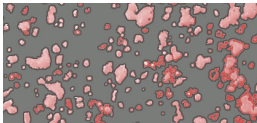
AdhesiveFastener

Low-Rise Foam Adhesive

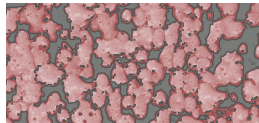
Ribbon Application (Insulation) / Splatter Application (Fleece-back Membrane)[†]

Spacing	4" (102 mm) on-center	6" (152 mm) on-center	12" (305 mm) on-center	Splatter
15 gal. set	3,000 sq. ft./30 sq. coverage	4,500 sq. ft./45 sq. coverage	7,500 sq. ft./75 sq. coverage	6,000 sq. ft./60 sq. coverage
50 gal. set	10,000 sq. ft./100 sq. coverage	15,000 sq. ft./150 sq. coverage	25,000 sq. ft./250 sq. coverage	20,000 sq. ft./200 sq. coverage

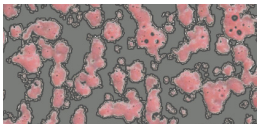
Examples of coverage for splatter patterns (Fleece-back single-ply membrane attachment only)



Not enough coverage



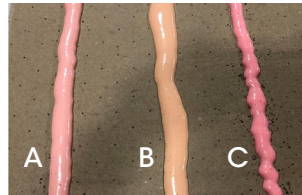
Too much coverage



Good coverage

Good coverage recommendations are based on a typical application of 3 lb. (1.36 kg) adhesive applied per 100 sq. ft. of area. Illustrations are provided for reference only.

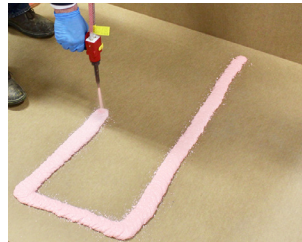
Examples of proper adhesive ratio for bead applications for insulation



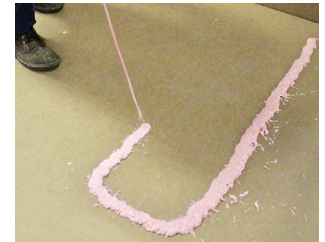
A — On ratio

B — Too much Part 1

C — Too much Part 2



Without tip extension



With tip extension

Prior to application, store for approx. 36 to 72 hours at room temperature. Colder cartridge/drum temperatures will result in excessive foam rise and cure times as well as excessive workload on dispensing equipment, or off ratio conditions. Do not freeze.

[†] When installed in accordance with GAF's application instructions. Results may vary depending upon application temperature range, porosity of substrate and insulation boards, type of substrate, bead size, etc.

