

Green-Lock® Plus

High-Performance Flashing Adhesive



OVERVIEW & FEATURES

Green-Lock Plus Flashing Adhesive is a trowel grade, cold applied, zero VOC, 100% polyether moisture-cured flashing adhesive. Green-Lock Plus Flashing Adhesive is an ideal cold process adhesive for modified bitumen base sheets and modified bitumen cap sheets because it bonds tenaciously to SBS modified bitumen membranes. It is used to apply flashings in conjunction with Garland's regular cold applied or Garland hot applied SBS modified roofing systems.

The Green-Lock Plus Flashing Adhesive system consists of a multi-ply flashing application beginning with a base ply of Garland's two-ply base sheets followed by one of Garland's StressPly® family of smooth or mineral membranes as cap sheets. The result is a high performance, solvent free, multi-ply, modified cold applied flashing system.

Solvent Free - Green-Lock Plus Flashing Adhesive uses polyether technology which contains no solvents. Being solvent free means there will be no adverse effects that are typically associated with solvent based products, including odors, sheet softening, compound damage, solvent blisters, etc. Green-Lock Plus Flashing Adhesive also contains zero VOCs, making it an environmentally friendly option.

Polyether Technology - Green-Lock Plus Flashing Adhesive is a moisture cured polymer that reacts with the moisture in the air to become a strong, tough and resilient rubber. It bonds the flashing system together, holding it securely both to the wall/flashing and underlying roof system. It also cures much quicker than standard solvent based adhesives.

Accelerated Curing - Green-Lock Plus Flashing Adhesive will cure in one to five days depending on climatic conditions, as compared to 30 days or more for traditional solvent based cements. Green-Lock Plus Flashing Adhesive becomes tack-free within an hour so there is less chance of tracking the material, therefore keeping the roof cleaner.

Easy Trowel Grade Consistency - Green-Lock Plus Flashing Adhesive is formulated to a trowel grade consistency which makes it much easier to apply. The material adheres to the substrate that it is applied to without any vertical sagging or flow. It has tremendous green strength holding the modified base sheet and modified cap sheet in place until they can be mechanically attached and properly detailed and secured.

Environmentally Friendly - Green-Lock Plus Flashing Adhesive contains zero VOCs and is 100% solids and solvent free. This non-asphaltic formulation is very low odor and it lowers the carbon footprint of roofing assemblies.

APPLICATION

Green-Lock Plus Flashing Adhesive is ready to use immediately. In cool weather, store all flashing cement containers at 70°F (21°C) for 24 hours before use. Applying cold cement to a cold substrate will increase the application rate of the adhesive due to the increase in the viscosity of the adhesive.

Using the width of the roll as the maximum length of the flashing membrane, precut the flashing membrane pieces to the proper height, extending out onto the field of the roof a minimum of 9" (228.6 mm). All cutting shall be completed on a piece of plywood in order to prevent cutting the roof membrane. All flashing work shall start at the low point of the roof. The first flashing piece installed shall be one half the normal length of the flashing pieces in order to stagger the laps with the field membrane laps.

On a separate piece of plywood or base sheet, turn the precut flashing pieces "bottom side up." Trowel the Green-Lock Plus Flashing Adhesive at a rate of 2-3 gallons per 100 sq. ft. (0.82-1.2 L/m²) to the entire bottom of the flashing piece, covering it completely. Pick up the coated flashing membrane and press it into position. Apply hard pressure to the entire surface of the membrane, making sure all air pockets are removed and 100% contact with the substrate was obtained. Install the termination bars/flashing details.

Coverage rates - Apply 2 to 3 gallons per 100 sq. ft. (0.82-1.2 L/m²) to the flashing ply and 2 to 3 gallons per 100 sq. ft. (0.82-1.2 L/m²) to the base ply for a total of 4 to 6 gallons per 100 sq. ft. (1.6-2.4 L/m²) with a 1/8" (3 mm) notched trowel. Bleed out at all overlap edges should be visible to ensure complete contact. The flashing should be mechanically secured at the end of each work day.

PRECAUTIONS

- Coverage rate increases over more porous insulation
- Roofing granules must be installed in adhesive bleed out prior to applying reflective coatings
- Must allow adhesive to cure for 21 days before applying any roof coatings due to staining
- Do not mix water into the pails of adhesive
- Do not use in freezing conditions and do not apply the adhesive over ice or moisture
- Do not apply the adhesive in the rain

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Technical Data	Green-Lock Plus Flashing Adhesive
Flash Point	400°F (232°C)
Density @ 77°F (25°C) (ASTM D 1475)	11.8 lbs./gal. (1.17 g/m ³)
Non-Volatile (ASTM D 4586)	100%
Viscosity @ 77°F (25°C) (ASTM D 2196)	122,500 cP
Tensile Strength (ASTM D 412)	110 psi (0.76 MPa)
Tack-Free Time @ 70°F (21°C) and 50% Humidity (ASTM C 679)	100 minutes
Shelf Life	12 months
Color	Dark Slate Gray
Carrier	Water
Coverage	4 to 6 gal./100 sq. ft. (1.6-2.4 L/m ²)
Packaging	3.5 gal. (13.2 L) pail



For more information, visit us at: www.garlandco.com

The Garland Company, Inc.

3800 East 91st Street
Cleveland, OH 44105
FAX: 216-641-0633
Phone: 216-641-7500
Toll Free: 800-321-9336

Garland Canada Inc.

209 Carrier Drive
Toronto, Ontario
Canada, M9W 5Y8
FAX: 416-747-1980
Phone: 416-747-7995
Toll Free: 800-387-5991
(Only in Canada)

The Garland Company UK, LTD

Second Way Centre, Second Way
Avonmouth, Bristol UK BS11 8DF
Phone: 011 44 1174 401050 (Outside UK)
Toll Free: 0800 328 5560 (Only in UK)

Tests verified by independent laboratories. Actual performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A \pm 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

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