

OVERVIEW & FEATURES

Green-Lock Plus White Adhesive is a high-performance moisture-cured polymer adhesive used to construct cold process roofing systems on single or multiple plies of Garland-approved membranes and as a surfacing flood coat with aggregate. The result is a high performance, solvent free, cold applied multi-ply modified bitumen roof system with an outstanding life span that functions equally well on flat surfaces and slopes up to 3:12. Green-Lock Plus White Adhesive is easy to apply by squeegee and, when combined with a white marble roofing aggregate, provides a superior, highly reflective surfacing option.

Versatile - Green-Lock Plus White Adhesive is approved for use with Garland's approved base and cap sheets. Green-Lock Plus White Adhesive can be directly applied to G-P Gypsum DensDeck Prime®, SecuRock®, or high density asphalt coated wood fiberboard. Green-Lock Plus White Adhesive can also be used as a surfacing adhesive to adhere roofing aggregate. Compatible with asphalt-based roofing mastics, adhesives and sealers and resists softening and staining of modified bitumen membranes.

Energy Efficient - Provides added UV protection to prolong the life of the roof, greatly reducing thermal shock while helping maintain internal temperatures and reducing cooling costs.

Waterproofing Protection - Green-Lock Plus White systems will provide additional waterproofing protection to an existing roof system and effectively extend the roof system's life.

User Friendly - The ease of application makes Green-Lock Plus White extremely fast and simple to install. This superior adhesive can be used to protect and restore an entire roofing system.

Environmentally Friendly - Green-Lock Plus White Adhesive ultra low 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

Garla-Block 2K Primer is required over all new BUR/modified bitumen systems and over existing systems. Apply primer at a rate of 1/2 gal./sq. (0.21 l/m²) prior to application of Green-Lock Plus White Adhesive.

In cool weather, store all adhesive containers at 70°F (21°C) for 24 hours before use. Applying cold adhesive to a cold substrate will increase the application rate of the adhesive due to the increase in the viscosity of the adhesive. The adhesive is to be applied at a minimum application temperature of 50°F (10°C) and rising.

Interply - Starting at the low point on the roof, the salvage edge of the sheet shall be "up slope." Unroll cap sheet and base sheet and allow to relax; this will aid a flat uniform application - re-roll prior to application. Snap chalk lines in areas where application of the adhesive to the sheet will occur. Pour the adhesive on the roof substrate and

use a notched squeegee to spread the adhesive covering the entire substrate at an application rate of 2-2.5 gal./100 sq. ft. (0.82-1.02 l/m²) for base and cap sheet.

Unroll the sheet into the wet adhesive and repeat the adhesive application procedure for the next roll/sheet covering any head or side laps as required. If desired, the adhesive can be applied to the side laps and head laps with a 4" (101 mm) wide medium nap roller. If curling occurs on the head laps, adhesive can be applied to both bonding surfaces. This will hold the head laps in place. Apply a temporary weight if necessary. Use a push broom to press membrane into adhesive. Apply roofing granules into the adhesive bleed out at 30 lbs./100 sq. ft.

Flood Coat - Once Garla-Block 2K bleed blocking primer has cured, sweep or blow away any dust, dirt or debris off the cap sheet. Then pour Green-Lock Plus White Adhesive onto the cap sheet at a rate of 5 gal./100 sq. ft. (2.04 l/m²). Finally, broadcast 400 lbs./100 sq. ft. (9.7 kg/m²) of 3/8" pea gravel immediately into the adhesive.

Application Technique for Title 24-Compliant Installations - Once Garla-Block 2K bleed blocking primer has cured, sweep or blow away any dust, dirt or debris. Apply 5 gallons/100 sq. ft. (2.04 l/m²) of Green-Lock Plus White and broadcast up to 150 lbs/sq (7/3 kg/m²) of 3/8" white marble aggregate into the wet adhesive.

PRECAUTIONS

- Not a sprayable product; dispense only by Garland-approved methods
- High levels of humidity decrease work time of product
- May only be used as a flood coat on new, smooth or mineral surfaces
- Garla-Block 2K Primer must be used prior to all Green-Lock Plus White surfacing applications
- 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 30 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
- Do not apply interply adhesive beyond 5 ft. of the roll
- Must be applied at ambient temperatures of 50°F (10°C) and rising
- Do not heat-weld seams
- Should not be used in conjunction with coal tar membranes as a flood coat over existing coal tar roofs
- Ensure ambient temperature is at least six degrees Fahrenheit or three degrees Celsius and rising above the dew point

Technical Data	Green-Lock Plus White Adhesive
Flash Point (ASTM D 93)	290°F (143°C)
Density @ 77°F (25°C) (ASTM D 1475)	13.4 lbs./gal. (1.61 kg/L)
Slope Limitations	3:12
Viscosity @ 73.4 ± 2°F (23 ± 2°C) Brookfield Spindle T-E, 20 RPM	35,000 cP
Tack-Free Time @ 70°F (21°C) and 50% Humidity	4-6 hours
Color	White
Shelf Life	12 months
Coverage Interply	2 - 2.5 gal./100 sq. ft. (0.82 - 1.02 l/m ²)
New Flood Coat	5 gal./100 sq. ft. 2.04 l/m ²
Wet Mil Thickness Interply	32 - 40 mils
New Flood Coat	80 mils
Packaging	5 gallon pail (18.9 l)

Eco-Facts (pending)	Green-Lock Plus White Adhesive	
VOC	<50 g/L	
Title 24-Compliant (with 3/8" Lucas Fire White Aggregate)	Initial	3 Year Aged
Reflectance	0.64	Pending
Emittance	0.92	Pending
SRI	78	Pending

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 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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