



Glacier Guard 100

Granular Surface Roofing Underlayment

PRODUCT TECHNICAL DATA

DESCRIPTION

Glacier Guard 100 is used as a shingle underlayment on critical roof areas such as eaves, ridges, valleys, dormers and skylights. Glacier Guard 100 underlayments protect roofing structures and interior spaces from water penetration caused by wind-driven rain and ice dams. Glacier Guard 100 may also be used as covering for entire roof to prevent moisture or water entry. Glacier Guard 100 is a flexible rubberized asphalt, fiberglass-reinforced membrane with a granular surface that provides maximum skid resistance during installation.

ADVANTAGES

Glacier Guard 100 underlayment provides immediate adhesion and a watertight seal around fasteners. Glacier Guard 100 underlayment has a split plastic release film for easy handling and a granular skid-resistant surface for safe installation. Glacier Guard 100 membranes bond directly to the roof substrate for fast and easy installation without the need for additional adhesives.

INSTALLATION

General Information: Glacier Guard roofing underlayments are applied when the roof deck is dry and the substrate temperature is 40°F (4.4°C) or higher. At temperatures below 40°F, cap nails should be used to temporarily hold the membrane in place while adhesion develops. Glacier Guard 100 is designed to be covered with the primary roofing system and should not be exposed to sunlight for more than 30 days.

Moisture: Substrate must be free of any moisture. If moisture is present, it may inhibit adhesion.

New Construction: Prepare the roof deck by removing all loose objects, dirt, dust or debris.

Re-roofing: Remove all old materials from the roof deck in the area to be covered with Glacier Guard roofing underlayment. Replace water-damaged sheathing and sweep roof deck thoroughly.

Valleys, Hips & Ridges: Cut Glacier Guard 100 roofing underlayment into manageable lengths. Align over the center of the valley, hip or ridge. Remove release film. Press the middle of the membrane first before working toward the edges. For open valleys, cover Glacier Guard roofing underlayment with metal valley liners.

Eaves & Rakes: Cut Glacier Guard roofing underlayment into 10-15' pieces. Remove 2-3' of release film and align the edge of the membrane, sticky side down, so it overhangs the drip edge by 3/8" (10 mm). Continue to remove release film and press as you move across the roof. Use a hand roller and/or hand pressure to press into place. Overlap end laps a minimum of 6". Glacier Guard roofing underlayment should reach a pointside the interior wall line. Local codes may require additional courses. If additional courses are required, the top lap must be at least 3.5".

Drip Edges: At rake edge and eaves apply Glacier Guard underlayment first, wrapping it over the edge of the deck substrate. Place the drip edge on top. **Optional:** After Glacier Guard and drip edge is installed at the eaves, an additional 6" wide strip of Glacier Guard may be installed along the eaves over the drip edge.

PRODUCT SPECIFICATIONS

| PRODUCT COMPONENTS | | |
|---|---------------------------------|---------|
| Surface | Black Granular | |
| Membrane | Rubberized Asphalt – Reinforced | |
| PRODUCT CHARACTERISTICS | Units | Results |
| Length | feet | 65 |
| Width | inches | 36 |
| Weight | lbs. | 65 |
| Coverage/Roll | sq./ft. | 195 |
| PHYSICAL PROPERTIES | Units | Results |
| Thickness (D-1970) | mil. | 55 |
| Low Temperature Flexibility (D-1970) | °F | -25 |
| Adhesion to Plywood at 75°F (D-1970) | lbs./ft. | 30 |
| Lap Seam Adhesion to Plywood at 75°F (D-1970) | lbs./ft. | 40 |
| Sealability Around Nail (D-1970) | | Pass |
| Slip Resistance (D-1970) | | Pass |
| Thermal Stability (D-1970) | | Pass |
| Moisture Vapor Permeance (D-1970) | Perms | 0.05 |
| Water Absorption (D-1970) | % | 1.5 |
| Maximum Load Machine Direction (D-1970) | lb./in. | 55 |
| Maximum Load Transverse Direction (D-1970) | lb./in. | 30 |
| Elongation at Break Machine Direction (D-1970) | % | 30 |
| Elongation at Break Transverse Direction (D-1970) | % | 45 |
| Tear Resistance Machine Direction (D-1970) | lbs. | 85 |
| Tear Resistance Transverse Direction (D-1970) | lbs. | 55 |
| PACKAGING INFORMATION | | |
| Boxes (rolls) per pallet | | 20 |
| APPLICABLE STANDARDS | | |
| US-UL Classified | | |
| 2009 International Building Code | | |
| State of Florida Approved Product FSA# FL6782 | | |
| Miami-Dade County Product Control Approved | | |
| ICC - ES ESR# 1556; | | |
| Meets ASTM D1970 | | |

WARRANTIES

EcoStar warrants this product to be free of defects in workmanship and materials at the time of shipment from EcoStar's factory. See www.ecostarllc.com for available warranties.