

GLACIER GUARD™ 100

Granular Surface Roofing Underlayment

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.

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, nailing or priming 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.

Priming: Priming is not required on clean, dry wood or metal surfaces but concrete masonry, exterior gypsum board and polyisocyanurate insulation should be primed using the appropriate primer or adhesive. Adhesives are required when temperatures are below 40°F.

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 point 2' inside 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 the rake edge, apply Glacier Guard roofing underlayment first and place drip edge on top. At the eave, apply drip edge first and place Glacier Guard roofing underlayment on top of the drip edge so that it overhangs drip edge 3/8" (10 mm).

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.

LIMITATIONS

Glacier Guard 100 should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.4°C). Glacier Guard 100 should not be left exposed to sunlight for more than 30 days. Glacier Guard 100 membrane should not be folded over the roof edge unless protected by a gutter or other flashing materials. The primary roof system must be ventilated to prevent excessive moisture build-up in the interior structure. Use caution during the installation of the membrane as it may become slippery when wet or covered with frost. Glacier Guard 100 should not be used under metal roofs and is not to be used in contact with flexible PVC material. Glacier Guard 100 roofing underlayment rolls should be stored on end, under cover and in areas where the temperature is between 40° and 100°F (4.4° and 38°C). Do not double-stack pallets.

PRODUCT SPECIFICATIONS

PRODUCT COMPONENTS		
Surface	Black Granular	
Membrane	Rubberized Asphalt – Reinforced	
PRODUCT CHARACTERISTIC		
Length	feet	65
Width	inches	36
Weight	lbs.	65
Coverage/Roll	sq./ft.	195
PHYSICAL PROPERTIES		
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. EcoStar will at its option either supply new product or refund the purchase price of any product found to be defective hereunder.

EcoStar's limited warranties are the only warranties extended by EcoStar with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. EcoStar specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of EcoStar's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the EcoStar material in question.



42 Edgewood Drive | Holland, NY 14080 | Tel: 800.211.7170 | www.ecostarllc.com

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P/N-602706 ECO-GLACIER GUARD 100 GRAN PTD. This data sheet, effective 01/16/17 supersedes all previous versions.

PRODUCT TECHNICAL DATA