



Glacier Guard 100

High Temperature Roofing Underlayment

PRODUCT TECHNICAL DATA

DESCRIPTION

Glacier Guard 100 is a multilayer nonwoven high-temp self-adhered roofing underlayment with polymer modified bitumen-based superior adhesion and lighter in weight for under synthetic roofing tiles.

INSTALLATION

Storage Guidelines

- Store between 40°F and 90°F
- Keep product in sealed box until use
- Keep away from flammable and corrosive substances.

Preparation

- Clean, prep and inspect deck for debris prior to installation.
- Avoid applying deck sealer during hot or sunny days as it may evaporate before it's fully absorbed.
- Priming is unnecessary when the product is applied to wood or wood-based surfaces.
- Use a solvent or a water-based primer for concrete and masonry decks per ASTM D41 for asphalt-based self-adhesive membranes.
- While working on re-roofing projects, ensure surface is free of dirt, dust, or any water-damaged sheathing.
- Strictly avoid using salt for ice removal.

Application Process

- Apply Glacier Guard during fair weather and at a temperature of 40°F or higher.
- In cold weather (under 40°F), apply primer and blind nail laps.
- Use 3/8" head roofing nails, 1" or longer, in 3" overlap areas.
- When applying on steep slopes (6:12 or greater) or working in an environment with a temperature greater than 100°F, make sure to blind nail in the overlap area.
- Start at the eave and lay parallel to the eave with the applied/printed side up, and use 3" horizontal laps and 6" vertical laps.
- Using 3/8" head roofing nails, nail 3" down from uppermost edge and 6" spacing across the 36" width. Ensure that the head lays flat and covers the top surface of the product.
- Ensure vertical overlaps are a minimum of 6" and horizontal laps are a minimum of 3".

Important Notes

- Do not install during severe weather conditions such as lightning storms, high winds, or extreme snowfall.
- Install first in valleys, then eaves then ridges.
- Cut Glacier Guard into 10-15 ft lengths, re-roll loosely and then peel back 1-2 ft of release liner. Install by peeling liner and pressing the membrane onto the roof deck. Secure by hand pressing or walking on it.
- To apply in valleys or ridges, peel the release liner, center the sheet in valley or ridge. Start in the center and work towards each edge, and continually press into place.
- For eave installations, Glacier Guard is installed over the metal drip edge. Apply up exterior walls a minimum of 24". Refer to local building codes for additional details. This may require removing and replacing the siding after installing the underlayment, shingles, and flashing.
- Patch holes created by fastener removal. Holes and tears must be repaired by patching membrane 6" in all directions.
- Make sure all fasteners hit substrate and do not fall in gaps.
- In areas prone to high wind and rain, it is recommended that Glacier Guard cover the entire roof.

Precautionary Measures

- Never leave the Glacier Guard exposed directly to the external environment for longer than 180 days.
- As necessary, install toe boards to protect roof areas and to avoid damage during installation and material movement.
- Avoid placing a large amount of material in a single spot on the roof deck. Distribute equally.

Caution

- Always follow safe roofing practices.
- Use and wear fall protection devices while working on roofs.
- Release liners are slippery and should be removed from the work area immediately after application.
- Slip resistance varies with changing surface and weather conditions and depends on the type of footwear and roof pitch
- Take proper care while walking or standing and wear safety gear to avoid injury.

PRODUCT SPECIFICATIONS

PRODUCT COMPONENTS			
Surface	Strong polypropylene (PP) surface with UV and weather resistive coating that add water shedding redundancy in the roofing system while protecting the structure from damage.		
PRODUCT CHARACTERISTICS		Units	Results
Length		feet	67
Width		inches	36
Weight		lbs.	32
Gross Coverage/Roll		sq./ft.	200
PHYSICAL PROPERTIES		Units	Results
Thickness (ASTM D-5147)		mil.	40
Low Temperature Flexibility (ASTM D-1970)		°F	Pass
Adhesion to Plywood at 75°F/40°F (ASTM D-1970)		lbs./ft.	≥12/ ≥2
Unroll Ability (ASTM D-1970)	No Cracking, Tearing or Damage		
Nail Sealability (ASTM D-1970)	Pass		
Tile Slippage Resistance	Approved		
Thermal Stability (ASTM D-1970)	200°F/Pass		
Permeability (ASTM E-96)	Perms	≤0.1	
Temperature Range	-40°F to 260°F		
Tensile Strength (ASTM D-1970) - MD	lbs./in.	≥25	
Tensile Strength (ASTM D-1970) - CD	lbs./in.	≥25	
Tear Resistance (ASTM D-1970) - MD	lbs.	≥20	
Tear Resistance (ASTM D-1970) - CD	lbs.	≥20	
PACKAGING INFORMATION			
Boxes (rolls) per pallet	25		
APPLICABLE STANDARDS			
Fire Rating (ASTM E-108) - Class A			
Florida Building Code			

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.