

# **GUARDIAN ROOF ARMOR<sup>®</sup> PRO**

# **GRANULAR ICE & H<sub>2</sub>O**

**SELF ADHESIVE**

## **Granular Surfaced Self-Adhesive Underlayment**

### **KEY PROPERTIES**

**Aggressive Bond at Low Temperatures**  
**High Temperature Stability • Repositionable • Seals around Nails**  
**UV Protected Surface • Reinforced with Fiberglass Mat**

### **DESCRIPTION**

Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O is a self-adhesive composite underlayment. The adhesive layer is composed of a proprietary modified asphalt, reinforced with an extra heavy fiberglass mat. The surfacing of opaque granules provides excellent traction and protection from UV degradation and weathering. The self-adhesive layer is covered with a release sheet which is removed during installation.

Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O is 55 mils (1.4mm)\* thick and is supplied in rolls of one square (3' x 33.3') (0.91m x 10.15m) and two square (3' x 66.6')(0.91m x 20.30m). The product is self-adhesive and cold applied, requiring no special adhesives, heat, or equipment for installation.

### **USES**

Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O is an excellent underlayment for shingle or slate roofs. It is designed to prevent moisture entry into structures by sealing uniformly to the deck and around nail penetrations, protecting residential and commercial buildings from damage due to ice dams or wind driven rain.

### **APPLICATION**

- Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O should only be applied to a roof deck with a pitch of 3/12 or greater.
- Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O should be applied when ambient and substrate temperatures are 40°F (4.4°C) or higher. Do not leave exposed for more than 30 days.
- Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O must be installed directly to the structural deck. Substrate must be clean and dry. Remove all dirt, dust, loose nails, and debris. On oriented strand board (OSB) priming may be necessary.
- Cut Guardian Roof Armor<sup>®</sup> Pro Granular Ice & H<sub>2</sub>O into manageable lengths, typically 10' - 12' (3.05m – 3.66m). On the eaves, align the membrane parallel to the roof edge, extending over by ¼" (6.35mm).
- Fold the membrane away from the edge onto itself and remove the lower half of the release sheet, starting at the middle of the membrane to the edge. Place the membrane onto the deck with the self-adhesive side down, and press firmly into place. Material should be applied over the drip edge on the eaves.
- Remove the release sheet and lay the top half of the membrane flat on the deck, self-adhesive side down. Press firmly into place.

**TECHNICAL DATA**  
**Guardian Roof Armor® Pro Granular Ice & H2O**

PROPERTY	TEST METHOD	RESULT**
Thickness, mils	D 5147	55
Tensile Strength	D 412	
Longitudinal		57 lbf/in.
Transverse		33 lbf/in.
Elongation at break	D 2523	22
Adhesion to plywood @ 40°F	D 903 / D 1970	13 lbf/ft.
Adhesion to plywood @ 75°F	D 903 / D 1970	15 lbf/ft.
Permeance	E 96	.03
Tear Resistance		
Longitudinal	D 4073	84 lbf
Transverse		48 lbf
Low Temperature Flexibility	D 1970	passed
Sealability around nail	D 1970	passed
Waterproof integrity of lap seam	D 1970	passed
Waterproofing integrity after low temperature flexibility	D 1970	passed

\*\* Values are typical

## APPLICATION *continued*

- On steep slope applications (over 6/12 pitch) or in high wind areas, backnail every 18" o.c. through the salvage edge and before applying additional courses. Use smooth shank galvanized roofing nails. Do not use staples.
- Repeat process as needed, overlapping additional courses at least 3" (7.62cm) on the edges and at least 6" (15.24cm) on end laps.
- On rake edge, overlap eave material a minimum of 6". Align the membrane parallel to the rake, extending over the roof edge by ¼" (6.35mm). Install per instructions above. Apply drip edge over membrane after material is adhered.
- Smooth shank galvanized nails are recommended for fastening shingles. Do not overdrive nails. Do not use staples.

## DETAILS

- At valleys, a continuous sheet shall be centered in the valley and overlapped by each course a minimum of 6" (15.24 cm).
- Proper roof ventilation per applicable local and state building codes is required.

## SAFETY, STORAGE AND HANDLING

- Pallets of Guardian Roof Armor® Pro Granular Ice & H2O shall not be double stacked. Provide cover on top and sides, allowing for adequate ventilation.
- Store in an upright position.
- Consult the Material Safety Data Sheet for information on the safe handling, storage, personal protection, health and environmental considerations.

## STANDARDS AND CODE LISTINGS

- ASTM D 1970 Standard Ice Dam Underlayment
- CCMC 13210-R
- Florida Building Code Approved: 9732.1
- ICC-ES Evaluation Report ESR-1783



## WARRANTY AND MSDS INFORMATION

Warranty and MSDS information is posted on [www.guardianbp.com](http://www.guardianbp.com).



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