

# **GUARDIAN ROOF ARMOR™**

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

**SELF ADHESIVE**

### **Poly Surfaced Self-Adhesive Underlayment for Metal Roofing**

## **KEY PROPERTIES**

**Superior Slip-Resistant Polyester Surface • Cooler Working Surface  
High Temperature Applications (up to 260° F, 126.67° C) • 45 Day Exposure Time  
Self-Adhesive and Cold-Applied • Rugged Barrier Against Foot Traffic**

## **DESCRIPTION**

Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O is a durable self adhesive composite underlayment, specifically designed to withstand the rigors of a commercial construction site. The strong, slip-resistant, polyester surface provides a rugged barrier to physical damage, UV degradation, weather and moisture. The unique, modified asphalt adhesive layer offers the application benefits of cold temperature adhesion and exceptional thermal stability under high heat. The self-adhesive layer is covered with a high temperature release sheet which is removed during installation.

Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O composite is 40 mils (1 mm) thick and is supplied in one square (3' x 33.3') (0.91m x 10.15m) and two square (3' x 66.6') (0.91m x 20.30m) rolls. The product is self-adhesive and cold applied, requiring no special adhesives, heat or equipment for installation.

## **USES**

Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O is an excellent underlayment for metal roofs, designed to prevent moisture entry into structures by sealing uniformly to the deck and around nail penetrations. Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O can serve as a temporary roof to protect the structure until the primary roofing system is installed and may be left exposed for a maximum of 45 days.

## **APPLICATION**

- Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O can only be recommended for roof decks with a pitch of 3/12 or greater. It can be installed on lower slopes, but the warranty will not apply.
- Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O should be applied when ambient and substrate temperatures are 40°F (4.4°C) or higher. Substrate must be clean and dry. Remove all dirt, dust, loose nails, and debris. Do not leave exposed for more than 45 days.
- Guardian Roof Armor™ Poly Ice & H<sub>2</sub>O can be installed directly to the structural deck. Cut the membrane 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). On steep slope applications, it may be necessary to spot nail the top edge of the membrane temporarily during the installation process. 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. If the top edge is spot nailed, remove the nails and fold membrane toward the roof edge, over itself. Remove the release sheet and lay the top half of the membrane flat on the deck, self-adhesive side down.

## TECHNICAL DATA

### Guardian Roof Armor™ Poly Ice & H2O

PROPERTY	TEST METHOD	MINIMUM VALUE*
Tensile Strength	ASTM D 412	30 lbs/in (psi)
Elongation (rubberized asphalt)	ASTM D 412	250%
Low Temperature Flexibility -25°F (-32°C)	ASTM D 1970	Unaffected
Adhesion to Plywood	ASTM D 903	9 lbs/in (528 N/M)
Permeance	ASTM E 96	0.01 perms (max)

\* All values are approximate

### APPLICATION continued

Press firmly into place. Repeat process as needed, overlapping additional courses at least 3" (7.62cm) on the edges and at least 6" (15.24cm) on end laps. For added protection, and to enhance end lap integrity, a modified bitumen adhesive should be used under all overlaps.

- 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.

### DETAILS

- At valleys, a continuous sheet shall be centered in the valley and overlapped by each course a minimum of 6" (15.24 cm).
- When Guardian Roof Armor™ Poly Ice & H2O is to be adhered to any metal surface, priming with asphalt primer meeting ASTM D41 is required.
- All roof penetrations shall be sealed with a modified bitumen adhesive.

### DETAILS continued

- Proper roof ventilation per applicable local and state building codes is required.
- Where vertical walls meet the roof, Guardian Roof Armor™ Poly Ice & H2O shall turn up a minimum of 8" on to the vertical wall.

### SAFETY, STORAGE AND HANDLING

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

### STANDARDS AND CODE LISTINGS

- ASTM D 1970 Standard Ice Dam Underlayment
- Florida Building Code Approved: 9840.1

### WARRANTY INFORMATION

Warranty information is posted on [www.bestbuymetals.com](http://www.bestbuymetals.com).



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