GUARDIAN BUILDING PRODUCTS

GUARDIAN ROOF ARMOR™ POLY ICE & H_2O SELF ADHESIVE

Poly Surfaced Self-Adhesive Underlayment

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
For use under metal, asphalt shingle, slate, shake or concrete tile roofing (batten system required)

DESCRIPTION

Guardian Roof Armor™ Poly Ice & H_20 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_20 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_20 is an excellent underlayment for metal, asphalt shingle, slate or concrete tile roofs (batten system required) and is designed to prevent moisture entry into structures by sealing uniformly to the deck and around nail penetrations. Guardian Roof Armor™ Poly Ice & H_2O 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 & H2O should only be applied to a roof deck with a pitch of 3/12 or greater.
- Guardian Roof Armor™ Poly Ice & H_2O 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_2O 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 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).
- 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™ Poly Ice & H20		
PROPERTY	**TEST METHOD**	**MINIMUM VALUE***
Tensile Strength	ASTM D 412	30 lbf/in
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 lbf/in (528 N/M)
Permeance	ASTM E 96	0.01 perms (max)

* All values are approximate

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. 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. 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).
- When Guardian Roof Armor™ Poly Ice & H_2O 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 & H_2O shall turn up a minimum of 8" on to the vertical wall.

SAFETY, STORAGE AND HANDLING

- Pallets of Guardian Roof Armor™ Poly Ice & H_2O 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 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
- ICC-ES Evaluation Report ESR-1783

WARRANTY AND MSDS INFORMATION

Warranty and MSDS information is posted on www.guardianbp.com.

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GUARDIAN BUILDING PRODUCTS

GUARDIAN ROOF ARMOR™ PRO GRANULAR ICE & H_2O 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™ Pro Granular Ice & H_20 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™ Pro Granular Ice & H_20 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™ Pro Granular Ice & H_2O 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™ Pro Granular Ice & H2O should only be applied to a roof deck with a pitch of 3/12 or greater.
- Guardian Roof Armor™ Pro Granular Ice & H_2O 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™ Pro Granular Ice & H_2O 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™ Pro Granular Ice & H_2O 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.

* Nominal

TECHNICAL DATA Guardian Roof Armor™ Pro Granular Ice & H_2O		
PROPERTY	**TEST METHOD**	**RESULT****
Thickness, mils	D 5147	55
Tensile Strength Longitudinal Transverse	D 412	 57 lbf/in. 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 Transverse	D 4073	 84 lbf 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 & H_2O 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

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GUARDIAN BUILDING PRODUCTS

GUARDIAN ROOF ARMOR™ DOOR & WINDOW TAPE

SELF ADHESIVE

Self-Adhesive Door and Window Flashing

KEY PROPERTIES

Tough Polypropylene Film

Low Temperature Adhesion • High Temperature Stability

Custom Slit (4”, 6”, 9” or 12” x 75’)(10.16cm, 15.24cm, 22.86cm or 30.48cm x 22.86m)

DESCRIPTION

Guardian Roof Armor™ Door & Window Tape is a self-adhesive membrane, uniquely combining a tough polypropylene film with a proprietary, modified asphalt to create a superior barrier to limit air and moisture transmission. The resulting product has excellent low-temperature adhesion, high temperature stability, and a facer that is resistant to physical damage.

Guardian Roof Armor™ Door & Window Tape is 30 mils* (0.76mm) thick and is supplied in rolls 75’ long (22.86m), custom slit to 4”, 6”, 9” or 12” widths (10.16cm, 15.24cm, 22.86cm or 30.48cm). The product is self-adhesive and cold applied, requiring no special adhesives, heat, or equipment for installation.

USES

Guardian Roof Armor™ Door & Window Tape is used to prevent vapor and air transmission through masonry curtain walls, construction joints, and fittings around doors and windows. Acceptable surfaces include precast concrete, plywood, OSB, metal, concrete block, foam block foundations, or approved insulations.

APPLICATION

Substrate Preparation

All surfaces must be clean, dry and smooth. Structural concrete should be cured a minimum of 7 days. Concrete and Wood composition panels, particularly oriented strand board (OSB), may require priming. Guardian Roof Armor™ Door and Window Tape can be mechanically fastened using nails or screws when the surface cannot be made smooth, clean and dry.

Primer

Prime dusty, dirty or weathered surfaces with a water, polymer, or solvent based primer to obtain a smooth, clean and dry surface. **Use only water based primer on foam surfaces.** Allow primer to dry completely before installing Guardian Roof Armor™ Door & Window Tape membrane.

Application

- Cut Guardian Roof Armor™ Door & Window Tape into manageable lengths. Remove the release sheet. Apply membrane from the lowest point upward, overlapping horizontal edges in shingle fashion. Roll membrane firmly to ensure uniform contact with substrate.

- Overlaps should be sufficient to ensure consistent adhesion to the substrate. Reinforcing strips on all inside and outside corners, as well as mechanical fastening to door and window frames, is strongly recommended. Seal all terminations, detailing and protrusions with a modified bitumen adhesive.

TECHNICAL DATA Guardian Roof Armor™ Door & Window Tape		
PROPERTY	**TEST METHOD**	**MINIMUM VALUE***
Tensile Strength, film	ASTM D 412	300 psi
Elongation to Break (rubberized asphalt)	ASTM D 412	320%
Pliability, 180°, 1" mandrel 25°F (-4°C)	ASTM D 146	Pass
Peel Adhesion, Dry (concrete)	ASTM D 903	5 lbf/in
Puncture Resistance	ASTM E 154	30 lbs (13.61kg)
Permeance	ASTM E 96B	0.01 perms (max)
Water Absorption	ASTM D 570	0.1% by weight (max)

* All values are approximate

APPLICATION continued

- Guardian Roof Armor™ Door & Window Tape is formulated to be installed in ambient temperatures of 25° F (-4° C) and above. When applying in ambient temperatures below 40° F (4.4° C), store the product at room temperature until use and prime the substrate with a water, polymer or solvent based primer to ensure good initial adhesion. Do not leave exposed for more than 45 days.

SAFETY, STORAGE AND HANDLING

Pallets of membrane shall not be double stacked. Provide cover on top and all sides, allowing for adequate ventilation. Avoid prolonged and repeated contact with the skin. Recommended storage conditions: 40°F to 80°F.

Consult the Material Safety Data Sheet for information on the safe handling, storage, personal protection, health and environmental considerations.

STANDARDS AND CODE LISTINGS

Meets ICC-AC-148 Requirements.

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