



BC BUILDING PRODUCTS
THE ENVELOPE SPECIALISTS

TECHNICAL DATA SHEET

Protecto Wrap Jiffy Seal® Ice & Water Guard HT

Manufacturer: Protecto Wrap Company

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Premium Building Products
That Protect

Jiffy Seal® Ice & Water Guard HT™
High Temperature Roofing Underlayment
with Tri-Layer Film Technology

TECHNICAL DATA

Properties	Test Method	Test Results
Surface Color		Green
Thickness	ASTM D 5147	40 mils
Maximum Load Requirement: ≥ 25 lb/in-width	ASTM D 2523/ ASTM D 1970	MD 93 CD 89
Elongation at Break Requirement: $\geq 10\%$	ASTM D 2523/ ASTM D 1970	MD 31 CD 25
Adhesion to Plywood @ 40°F Requirement: ≥ 2.0 lb/ft-width	ASTM D 2523/ ASTM D 1970	35.9
Adhesion to Plywood @ 73.4°F Requirement: ≥ 12.0 lb/ft-width	ASTM D 903/ ASTM D 1970	118.4
Thermal Stability Requirement: ≤ 0.1 in.	ASTM D 1204/ ASTM D 1970	0.0
Low Temperature Stability (Pass/Fail)	ASTM D 1970	Pass No visible signs of cracking and pass head of water test
Tear Strength Requirement: 20 lbf	ASTM D 4073/ ASTM D 1970	MD 127 CD 132
Moisture Vapor Permeance Requirement: ≤ 0.1 US Perms	ASTM E 96 Procedure BW	0.01
Self-Sealability around nail Requirement: Pass/Fail	ASTM D 1970/ ASTM D 7349 Protocol 4 (mod)	Pass No water in the bottom of the can, or underside of substrate, on fastener shank, or between product and substrate
Self Sealability of side seam lap Requirement: Pass/Fail	ASTM D 1970/ ASTM D 7349 Protocol 4 (mod)	Pass No water in the bottom of pan, or between the plywood and the unadhered upper piece
Physical Requirement- Other		
Unrolling (Pass/Fail) Requirement: Visual inspection in the unrolled position	ASTM D 5636/ ASTM D 5147/ ASTM D 1970	Pass shall not crack nor stick to cause tearing or other damage
Puncture Resistance	ASTM E 154	>250 psi
Accelerated Weathering Outdoor Exposure	ASTM D 1970	180 Days
Accelerated Weathering Maximum Load Strain - Requirement ≥ 25 lbs./in. width	ASTM D 2523/ ASTM D 1970	MD 79 CD 71
Accelerated Weathering Elongation at Break - Requirement $\geq 10\%$	ASTM D 2523/ ASTM D 1970	MD 26 % CD 21 %
Accelerated Weathering Low Temperature Flexibility Visual Inspection Self Sealability (head of water) Flexed Specimen	ASTM D 1970	Pass no visual signs of cracking and pass head of water test. MD- Pass CD - Pass
Installation Temperature	-	40°F to 120°F (4°C to 48°C)
In-Service Temperature	-	-45°F to 250°F (-42°C to 121°C)
Fire Classification	ASTM E 108	Class A

PACKAGING

36" x 66' roll (198 SF/Roll)

36" x 75' roll (225 SF/Roll)

DESCRIPTION

Jiffy Seal® Ice & Water Guard HT is a cold applied, self-adhering membrane composed of a proprietary slip resistant, tri-layer, woven polypropylene fabric coated on one side with a layer of high temperature asphalt adhesive.

FEATURES

- Proprietary asphalt adhesive
- IAPMO ER-0390 listed
- Florida Product Approval # FL 17155
- Florida Product Approval # FL 41542 - Approved for use in High Velocity Hurricane Zones
- 6 month UV exposure rating
- Fully adhered system
- Proprietary Tri-Layer, Engineered Film Technology
- Proprietary slip resistant surface for added footing safety
- Seals around properly installed fasteners
- Waterproof, air and vapor Barrier
- Can be installed horizontally or vertically (as code allows)
- Can be installed on roof pitches down to 2"/12", for lower slopes contact your Protecto Wrap Representative
- Class A Fire Rating under fiberglass shingles

USES

A complete waterproof roofing underlayment used on new and *retro-fit** roofs, under most roof coverings. Designed for use at low slope areas, hip, ridge, valleys, rake edges, confined rake edges, around skylights and chimneys.

LIMITATIONS

Not recommended for roofs that exceed 250°F (121°C) operating temperature.¹

Not recommended for use under, or in contact with Copper, Core-Tin and zinc roofing materials

Not recommended for use on roof slopes less than 2"/12" (without approval).

Not recommend for use over granulated surfaces or existing roof coverings.

Jiffy Seal Ice & Water Guard HT is a non-permeable membrane and as such is not recommended for use on exterior sheathing unless it has been designed into the total building envelope system.

¹ Note: Copper, Core-Tin and Zinc roof components are considered highly conductive metals and can reach temperatures exceeding 250°F (121°C). We recommend using Protecto Jiffy Seal® Butyl Ice & Water Guard HT under these roof coverings.

SHELF LIFE

Jiffy Seal Ice & Water Guard HT maintains optimum initial adhesion to substrates when used within one year from the date of manufacture.

STORAGE

Jiffy Seal Ice & Water Guard HT should be stored in the original, unopened container at ambient temperatures between 50°F to 90°F (10°C to 32°C). Storage area should remain dry and out of direct sunlight. Do not remove materials from original containers until ready for use. Do not double stack pallets. Do not store rolls on end.

Cold Weather Storage – products should be stored in original containers in a warm dry area between 50°F to 90°F (10°C to 32°C). Product should be kept warm a minimum of 24 hours prior to and just up to installation.

PREPARATION

Roof deck surface shall be clean, dry and free of any foreign materials. The roof deck surface shall be free of gaps, sharp edges and protrusions. Do not walk on surface when wet or covered with frost as there is an increase risk of injury.

Metal surfaces may need to be solvent wiped and/or abraded to achieve optimum adhesion.

On vertical applications at roof to wall intersections, all surfaces shall be clean, dry and free of any foreign materials. The surface shall be free of gaps, sharp edges and protrusions.

Protecto Wrap Company recommends testing substrates for adhesion prior to full application of membrane. If adhesion to substrate is found to be marginal, then a primer shall be used to ensure optimal adhesion. Refer to: "Technical Letter Primer Recommendations".

Priming

Prime if surface is DensGlass Gold®, DensDeck, OSB, concrete substrates, Concrete block (CMU), masonry, fiber board sheathing, exterior gypsum or cannot be cleaned to a like new surface or the surface is damp or below 40°F (4°C).

APPLICATION

Jiffy Seal Ice & Water Guard HT can be installed on any exterior grade solid sheathing normally used for roof decking. Apply **Jiffy Seal Ice & Water Guard HT** only in fair weather conditions when air, roof deck and membrane temperatures are at 40°F (4°C) or higher.

Install membrane such that all laps shed water in both vertical and horizontal installations.

Valleys require a minimum 18" wide roll of **Jiffy Seal Ice & Water Guard HT** centered down the full length of the valley. The valley strips should be applied prior to the field membrane application. **DO NOT LACE MEMBRANE THROUGH THE VALLEY!**

Install membrane starting at the lowest point of roof slope and work up the slope.

Position the roll into the desired location, roll out the membrane and cut to length as needed, the field membrane should not extend past the center line of the valley.

Align the roll with edge of eave or overlap of preceding roll, pull membrane tight, start by removing a portion of the release liner and adhere to roof deck (reposition as needed prior to removing the remaining release liner).

Lift the opposing end of the membrane and remove or strip the release liner, pulling it to one side, keep membrane aligned and tight, adhere membrane to the roof deck while another person brooms the sheet flat.

Edge laps are 3" minimum and end laps are 6" minimum. All laps should be firmly pressed or rolled to ensure a positive seal.

At the end of each day's work, **Jiffy Seal Ice and Water Guard HT** should be trimmed flush with the rake edge of the roof and not left to hang over the side of the rake edge.

If the **Jiffy Seal Ice and Water Guard HT** is installed in a soffit type application, the substrate should be primed and the membrane should be mechanically fastened at the perimeter edges and may need to be fastened in the field to prevent sagging / debonding.

Vertical Application (at roof to wall interfaces)

in the case of a roof to wall transition we recommend sealing the terminal edge of the membrane on the wall with Protecto Sealant 25XL or JS 160H Mastic (or equal) to prevent moisture from migrating behind the membrane. Cut membrane to length, apply to substrate and firmly roll into place using a hand roller (J-roller, Laminate roller) to smooth out any wrinkles, air bubbles or creases that would allow water to migrate behind the membrane.

For **Cold Weather Applications**, products should be stored in original containers in a warm dry area between 50°F to 90°F (10°C to 32°C). Product should be kept warm a minimum of 24 hours prior to and just up to installation. Protecto Wrap Company recommends testing substrates for adhesion. If adhesion to substrate is found to be marginal, then a primer shall be used to ensure optimal adhesion. Refer to: "Primer Recommendations" for more information regarding primer recommendations and "Technical Letter Cold Temperature Applications". Both can be found at www.protectowrap.com/library-resources.

Additional methods and details can be found at www.protectowrap.com in the Technical area or call (800) 759-9727.

CLEAN UP

Dispose of waste in accordance to local requirements. Control worksite so that boxes and release liner do not present a hazard.

Packaging materials and release liner can be recycled.

CAUTION

Jiffy Seal Ice & Water Guard HT should not come into contact with solvent based products, polysulfide's, plasticized PVC roofing materials or high concentrations of resins (pitch).

Jiffy Seal Ice & Water Guard HT incorporates a slip resistant surface; however, Protecto Wrap Company recommends the use of appropriate fall protection when installing roof underlayments.

Jiffy Seal Ice & Water Guard HT is a waterproof, air/vapor barrier; spaces under the area covered must be properly vented.

LIMITED WARRANTY

This product is covered by the Protecto Wrap Standard 10 Year Limited Warranty.

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