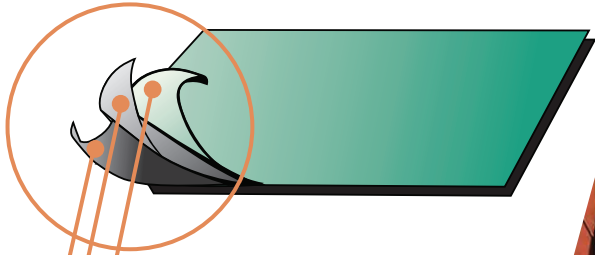




Protecto JIFFY SEAL® BUTYL ICE & WATER GUARD HT Roofing Underlayment



TOP LAYER:

- Waterproof anti-slip walk surface
- Provides SAFETY and first layer of waterproofing & UV Protection

MID LAYER:

- High strength engineered reinforcement layer
- Provides puncture & tensile strength with additional UV Protection
- Provides conformability of membrane to substrate

BOTTOM LAYER:

- Waterproof tie-layer
- Provides additional waterproofing layer and UV Protection

Butyl: Our proprietary blend is a high recycled content butyl adhesive. **The butyl based component contains 100% recycled content.** The adhesive is stable at high temperatures (300°F) while providing superior cold temperature tack and excellent adhesion to most surfaces. Butyl adhesive is chemically stable and has a very low risk for incompatibility with dissimilar materials.

Protecto Jiffy Seal BUTYL Ice & Water Guard HT is a proprietary underlayment with a slip resistant film on one side and a high temperature recycled butyl adhesive. It protects your roof from leaks caused by ice dams and windblown rain.

High temperature, self adhered roof underlayment for very high temperature, highly conductive roofs and high altitude applications

WHY IS PROTECTO WRAP'S BUTYL ADHESIVE DIFFERENT?

Protecto Wrap's proprietary butyl formula promotes excellent adhesion to the substrate. This provides improved initial tack and facilitates easier application at low temperatures (25°) as well as a high temperature operating performance (up to 300°). The butyl adhesive is chemically stable and has a very low risk for incompatibility with other materials. The proprietary blend contains a high amount of recycled material and the **butyl base contains 100% recycled material.**

FEATURES & BENEFITS

- For very high temperature, highly conductive roofs and high altitude applications
- Proprietary RECYCLED butyl adhesive
- 6 month UV exposure rating
- Used under highly conductive roofs – copper
- Proprietary slip resistant surface for added footing safety
- Seals around properly installed fasteners
- Meets or exceeds ASTM D1970
- IAPMO ER-0390
- Used beneath shakes, shingles, metal panels and slate roofs
- Excellent overlap adhesion
- Butyl adhesive can withstand temperatures up to 300°F without degradation



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APPLICATION:

Jiffy Seal BUTYL can be installed on any exterior grade solid sheathing normally used for roof decking. Install membrane such that all laps shed water in both vertical and horizontal installations. Valleys require a minimum 18" wide roll of Jiffy Seal BUTYL centered down the full length of the valley. Install membrane starting at the lowest point of roof slope and work up the slope. 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 increased risk of injury. Metal surfaces may need to be solvent wiped and/or abraded to achieve optimum adhesion.

PRIMING:

Prime DensGlass Gold®, DensDeck®, masonry, and concrete substrates. For other substrates such as wood composition and gypsum sheathing, prime as necessary if adhesion is found to be marginal. Refer to "Technical Letter Primer Recommendations" for more information regarding primer recommendations and "Technical Letter Adhesion to Substrates" for adhesion guidelines.

AVAILABLE SIZES:

36" x 66' Roll

- #1) Apply Jiffy Seal BUTYL Ice & Water Guard HT only in fair weather conditions when air, roof deck and membrane temperatures are at 25°F (-4°C) or higher.
- #2) Position the roll into the desired location, roll out the membrane and cut to length as needed.
- #3) 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).
- #4) 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.
- #5) Edge laps are 3" minimum and end laps are 6" minimum. All laps should be firmly pressed or rolled to ensure a positive seal.

LIMITATIONS:

Not recommended for use on roof slopes less than 2"/12" (without approval).
Not recommend for use over granulated surfaces or existing roof coverings.

WARRANTY PROVISION:

Protecto Wrap Company expressly warrants, subject to the Exclusion of Warranties provision set forth below, that its products shall be fit for the ordinary purposes for which such products are intended for a period of ten (10) years. NO OTHER EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES including implied warranties of merchantability and/or fitness for a particular purpose shall be applicable to any product(s) of Protecto Wrap Company, except to the extent that any of such products are specifically covered by an expressed warranty that is provided in writing to a particular purchaser by an authorized employee of Protecto Wrap Company. In the event of a breach of any product warranty extended by Protecto Wrap Company, Protecto Wrap

Company's liability and the associated claimant's sole and EXCLUSIVE REMEDY is EXPRESSLY LIMITED to the repair or replacement of the defective product(s) FOB Denver on a pro rata basis according to the original sale price, so that the claimant will effectively be charged only for that portion of the normal useful life of the defective product(s) which has elapsed since the purchase date of the product(s). Under no circumstances shall Protecto Wrap Company be liable for any consequential damages, including any labor costs that may be associated with a breach of any product warranty extended by Protecto Wrap Company.

EXCLUSION OF WARRANTIES:

Protecto Wrap Company assumes no warranty regarding the installation of its products. In addition, if Protecto Wrap Company's products are not properly installed, then no product warranties, expressed or implied shall apply to the products that have been improperly installed.

PHYSICAL PROPERTIES		JIFFY SEAL BUTYL ICE & WATER GUARD HT		COMPETITOR "A"	
TESTING METHOD	DESCRIPTION OF TEST	VALUES	METRIC	VALUES	METRIC
ASTM D5147 sec 5	Thickness, nominal	30 mil	0.76 mm	30 mil	0.76 mm
ASTM D903	Adhesion to Plywood	4.5lbs/in. width	788 N/m	3.0lbs/in. width	525 N/m
ASTM D1970 sec 7.6	Thermal stability, Max	300°F		300°F	
ASTM D1970 sec 7.7	Flexibility Temperature	Pass		Pass	
ASTM E96	Moisture Vapor permeability, max	<.05 perms	< 2.9 ng/m2s Pa	.05 perms	2.9 ng/m2s Pa
ASTM D146-78A	Pliability	Pass		Pass	
ASTM D412 (die C)	Tensile Strength	2000 psi	13789 KN/m2	250 psi	1720 kN/m2
ASTM D412 (die C)	Elongation of membrane	500%		250%	
ASTM D1894	Coefficient of Friction	>0.65g			
UV Exposure		180 Days		60 Days	
Film Stability at 180°F		YES		NO	
Film Thickness		10 mils		3 mils	
Slip Resistance		100% Coverage		Grid Pattern	



Protecto Wrap Company
1955 S. Cherokee Street
Denver, CO 80223
(800) 759-9727
www.ProtectoWrap.com

