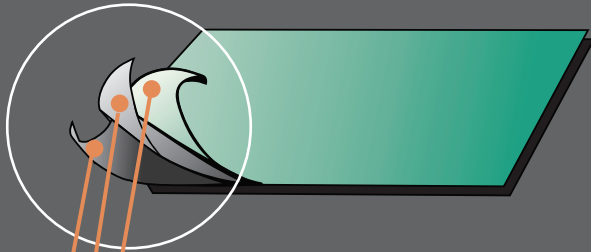


WHAT IS THE PROPRIETARY PROTECTO WRAP TRI-LAYER ENGINEERED FILM?



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

LIMITATIONS

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

ROLL SIZE

36" x 66' (30 mil) (198 SF/Roll)

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.

Protecto Wrap Company

800-759-9727

www.protectowrap.com

JSIWG BUTYL HT: 04-19

Protecto Jiffy Seal® BUTYL Ice & Water Guard HT

High Temperature, Self Adhered Roof Underlayment

For Very High Temperature, Highly Conductive
Roofs and High Altitude Applications



HIGH RECYCLED CONTENT

**BUILDING
ENVELOPE
SOLUTIONS**



Premium Building Products
That Protect

Jiffy Seal® BUTYL Ice & Water Guard HT

PREMIUM HIGH TEMPERATURE, SELF-ADHERED ROOF UNDERLAYMENT



HIGH RECYCLED CONTENT

For Very High Temperature, Highly Conductive Roofs and High Altitude Applications

Featuring Protecto Wrap's Tri-Layer Engineered Film

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.

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:

- Jiffy Seal BUTYL Ice & Water HT is self-sealing around properly installed fasteners
- Anti-slip surface
- **Proprietary RECYCLED Butyl Adhesive**
- 6 month UV exposure
- Used beneath shakes, shingles, metal panels & slate roofs
- Used under highly conductive roofs – copper
- Used in high altitude and/or high temperature applications
- Excellent overlap adhesion
- Butyl adhesive can withstand temperatures up to 300°F without degradation
- Meets or exceeds ASTM D1970
- IAPMO ER-0390



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®, DenseDeck®, 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.

#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.

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	500%	13789 KN/m2	250 psi	1720 kN/m2
ASTM D412 (die C)	Elongation of membrane	20%		250%	
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	