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TECHNICAL DATA SHEET

Protecto Wrap Jiffy Seal Ice & Water Guard

Manufacturer: Protecto Wrap Company

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JIFFY SEAL ICE & WATER GUARD

Protecto Wrap's Answer To The Roof Ice Dam Problem.

An important and proven Protecto Wrap product, ICE & WATER GUARD, is a tough, pliable sheet membrane designed to prevent moisture penetration and interior damage from water back up caused by roof ice dam buildup during the winter season or by wind driven rain.

Protecto Wrap's ICE & WATER GUARD can be installed in new construction or during re-roofing under shingles, tile, slate, metal and shakes and is compatible with accepted roofing materials.

Cold applied ICE & WATER GUARD is easy to apply and provides an effective concealed waterproofing system without detracting from the roof or building design.

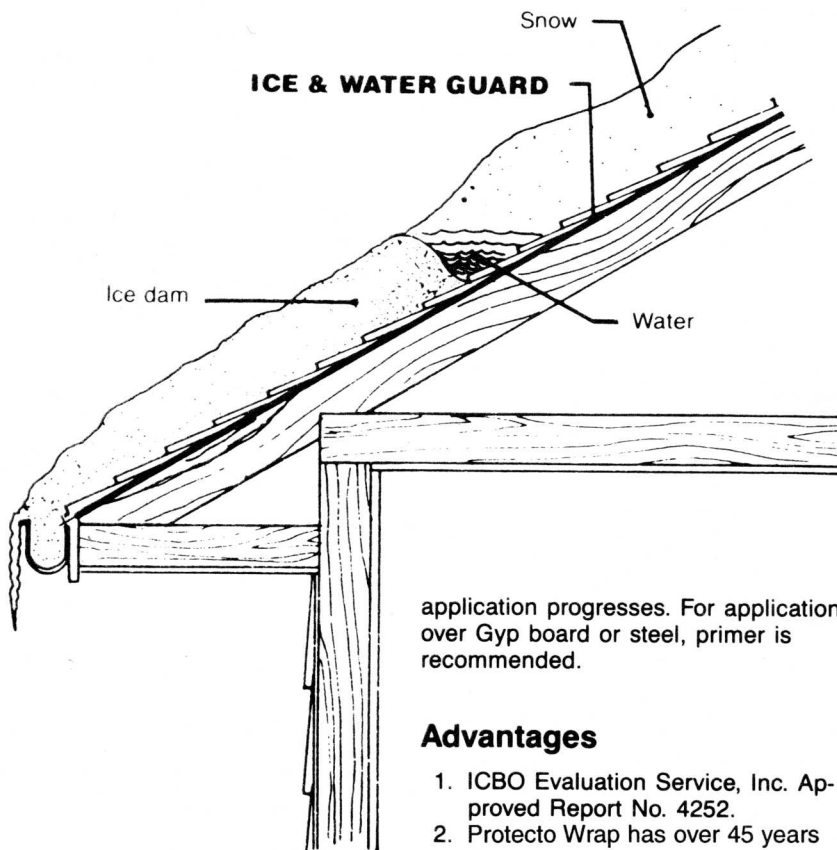
Product Description

ICE & WATER GUARD consists of bituminous resins modified with synthetic resins. This SBS modified rubberized asphalt is reinforced with an exceptionally strong inert reinforcement to withstand puncture and severe stress. The reinforcement is a non-woven fabric which assists in sealing around nails and screws. The preformed membrane provides effective waterproofing over a wide temperature range. The membrane is tacky on both sides to provide good bonding characteristics to both the substrate and the roof covering.

ICE & WATER GUARD is provided in rolls interwound with a release film to prevent self adhesion of the material in the roll.

Product Selection:

ICE & WATER GUARD is available in summer grade for application above 40 degrees F. and in cold weather (CW) for applications between 20 degrees F. and 40 degrees F. 100 Primer is recommended for cold weather applications and on re-roof applications.



application progresses. For applications over Gyp board or steel, primer is recommended.

Advantages

1. ICBO Evaluation Service, Inc. Approved Report No. 4252.
2. Protecto Wrap has over 45 years of experience.
3. Fully bonded, totally cold applied ICE & WATER GUARD gives assurance of a waterproof system.
4. The reinforcement in the membrane gives the integrity and mechanical strength required. The SBS modified rubberized asphalt will seal around the nails and screws used to secure the roofing material. Note: Always remove the release film prior to the final roof coverage.
5. The membrane retains its pliability and will not rot, decay or crack. It is resistant to fungus and bacteria growth.
6. In service temperature: ICE & WATER GUARD has been tested for pliability down to -55 degrees F.
7. Labor savings are achieved when 60" width rolls are used.
8. Removal of release film exposes a tacky surface which adds to footing safety.
9. Installation errors can be corrected during application, an advantage not found in adhesive applied or liquid waterproofing membranes.

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Rolls are supplied in 12", 30" and 60" widths and are 75' in length.

A unique "Zip Strip" along both edges of the rolls provides a built-in seam guide and provides a self-adhering overlap, eliminating the need for a joint seal tape or compound process. Once the rubberized asphalt from the applied sheet comes into contact and is rolled onto the overlap of the succeeding sheet of membrane, ICE & WATER GUARD forms into a monolithic or one ply waterproofing membrane over that portion of the deck.

ICE & WATER GUARD can be applied without the use of primer to clean, dry, plywood surfaces when temperatures are 40 degrees F. and rising. When applying ICE & WATER GUARD, remove the release film as membrane

10. When covering 100% of the roof deck with ICE & WATER GUARD, strapping the roof vertically is acceptable. This also can help in lessening "oil canning" in metal roof systems.
11. ICE & WATER GUARD has a perm rating of .003. ICE & WATER GUARD is a true air and vapor barrier. When properly applied and covered, ICE & WATER GUARD will last the life of the roof.

Application

After removal of the old shingles and roofing felt, or completion of the new roof ready to receive shingles, remove any old nails, dust or dirt so that you have a dry, clean and smooth surface. Note: Do not apply ICE & WATER GUARD to frozen decks.

ICE & WATER GUARD is applied directly to the plywood surface or roof deck and rolled to obtain maximum contact.

When the second course of the membrane is ready to be placed remove the "Zip Strip" from the first course and continue this process until sufficient number of courses have been placed to reach beyond the point of the highest expected level of the ice dam.

Side laps with the "Zip Strips" removed are approximately 2 1/2" and end laps should be no less than 4".

Soffit and fascia areas should be inspected for possible leaks and should be repaired by caulking or other accepted practices.

Metal drip edges on flashing around protrusions should be over ICE & WATER GUARD. A 6" strip of ICE & WATER GUARD should be placed 3" onto the drip edge and 3" onto the membrane on the deck, the same day of membrane application.

When applying the membrane in the valley, start at the low point and work to the high point rolling the membrane from the center outward in both directions.

For ridge application, center the membrane and roll from the center outward also in both directions.

When application of the membrane has been completed, check for any damaged areas, fishmouths, etc. and repair as necessary. If the membrane has been applied the same day and is clean and free of dust or any other contaminants cut a piece of the membrane so that the patch extends a minimum of 6" beyond any point of the area that was damaged and roll firmly. If membrane is dirty, apply a light coat of primer to the damaged area before patching.

It is recommended that the entire surface of the applied membrane be rolled so as to have 100% contact to the surface and give special attention to rolling the overlapped areas.

Note:

1. Summer grade ICE & WATER GUARD is available with a light reflective topping for applications in the heat of summer.
2. Application of ICE & WATER GUARD should be made when temperatures are 40 degrees F. or higher and applied only to a dry surface. No primer is required on a clean plywood surface. At temperatures between 20 degrees F. and 40 degrees F. use cold weather ICE & WATER GUARD. Primer is required on decks and seams should be lightly primed below 40 degree F. applications.
3. Since ICE & WATER GUARD is a moisture, air and vapor barrier, spaces under the area covered must be properly vented.

4. Shingles can be placed immediately after application of the membrane and all applied membrane must be covered and not left permanently exposed.
5. After application of the membrane and before removal of the release film, the surface may be slippery so use care during application.
6. Remove the polyethylene release film before final roof installation.
7. When ICE & WATER GUARD is applied to concrete or metal surfaces priming with Protecto Wrap's No. 100 Primer at the rate of 150-250 sq.ft. per gallon is required.
8. Installation errors can be corrected during application, an advantage not found in adhesive applied or liquid waterproofing membranes.

ICE & WATER GUARD

ICBO EVALUATION SERVICE, INC. Report No. 4252

Properties:

Color	Black
Thickness	40 mils ± 5 mils
Rolls Size	30" x 75' and 60" x 75'
Square Feet/Roll	30" x 75' Roll - 187.5 60" x 75' Roll - 375.0
Packaging	1 Roll/Carroll
Weight	30" Roll - 60 lbs. 60" Roll - 120 lbs.
Primer	4 1-Gallon Pails - 38 lbs. 1 5-Gallon Pail - 46 lbs.

Specifications:

	Value	Test
Thickness	40 mils ± 5 mils	
Tensile Strength p.s.i. reinforcing only	1400	ASTM D882-A
Elongation, ultimate	500%	
Failure of tar mass	Pass	ASTM D-146
Pliability		

DISCLAIMER:

The Product Technical Data set forth above should not be construed so as to create any type of express or implied warranty in products sold by Protecto Wrap Company. The technical figures are merely average test values.

Product Warranty Provision

Protecto Wrap Company expressly warrants, subject to the Exclusion Of Warranties provision set forth below, that it's products shall be fit for the ordinary purposes for which such product are intended for a period of five (5) 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

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