

TRI-BUILT® ICE & WATER

NOTE:

Read all instructions, directions and warnings before installing this product.

USES:

- Use for steep slope roofing applications under primary roofing products
- Use under asphalt shingles, wood shake, slate & other roofing materials
- Ideal for perimeter edges & valleys
- Totally waterproof & nail sealable
- ASTM D1970 & AC 48
- Up to 60 day exposure

COMPLIANCE:

Exceeds performance requirements of ASTM D1970 & AC 48. Florida Building Code Approved. Miami-Dade County Product Control Approved.

PRODUCT DESCRIPTION:

TRI-BUILT® Ice & Water Roof Underlayment is an all-purpose roof underlayment and leak barrier. TRI-BUILT® Ice & Water underlayment is ideal for use under shingle, slate, wood shake and other steep slope roofing materials. TRI-BUILT® Ice & Water underlayment provides a rubberized and flexible waterproofing membrane that helps keep your home or building dry. This product can be used over an entire roof deck or for sealing critical areas on your roof such as perimeter edges, valleys, details and penetrations. For severe or harsh climates (ice, snow, strong winds or heavy rain), full roof coverage is recommended.

FALL PROTECTION WARNING:

Always follow proper fall protection procedures in accordance with OSHA and local regulatory requirements. Always use personal fall protection devices when working on a roof. Use safety equipment such as tie-offs, safety lines, body harnesses, toe boards and ladders. Never walk on underlayments that have not been fully adhered or nailed down. Dusty, damp or wet conditions as well as certain shoes can result in slippery surfaces and create a fall hazard. Always be cognizant of where you are in relation to your surroundings including but not limited to: the edge of the roof, any projections, skylights and any other objects which could cause you to slip or fall. Falling from a roof can result in serious harm or death.

 **WARNING: Cancer – www.P65Warnings.ca.gov**

PREPARATION:

Ensure the deck is dry, smooth and without voids or unsupported areas. Remove any existing nails, fasteners or staples. All decayed, rotting, rusted or broken materials must be removed and replaced before installing any roof underlayment. Deck must be in sound condition, stable and secured to sound framing with the correct fasteners, clips and spacing as per local building codes and/or shingle or roofing manufacturers published specifications. If using new OSB sheathing or plywood, a gap should be left between sheets to allow for expansion and contraction of new sheathing and prevent bulging and ridges from forming. Spacing should be approximately 1/8" at end joints and 3/16" at side joints; however, this must be verified with shingle or other roofing manufacturer's specifications. To help alleviate expansion and contraction of new OSB or plywood, allow the material to be pre-conditioned prior to installation. Always ensure adequate roof and attic ventilation when applying waterproofing membranes. Apply only when material interface temperatures are 40 °F and rising. Lower temperatures will result in lower tack and reduce adhesion. If low temperatures are present during installation, product may be back-nailed to hold sheet in position during installation. As temperatures heat up, adhesive will activate and bond with substrate and seams. Priming is not required for clean and dry roof decks made of wood. Concrete and masonry deck surfaces require priming with TRI-BUILT® Asphalt Primer (meeting ASTM D41 standards).



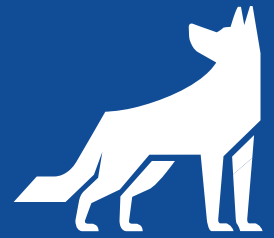
PHYSICAL PROPERTIES:

Size	36" x 66.7"
Area	Approx. 2 Squares
Thickness (ASTM D1970)	60 mils
Max Load (ASTM D5147) (lbf/in)	>25
Elongation at Break	
Min. of Modified Bitumen Portion (ASTM D5147) (%)	>10
Tear Resistance (ASTM D1970) (lbf/in)	>60
Moisture Vapor Permeability (ASTM E96)	<0.1
Adhesion to Plywood @ 40 °F (ASTM D1970)	>8 lbf/in
Adhesion to Plywood @ 75 °F (ASTM D1970)	>25 lbf/in
Sealability Around Nail (ASTM D1970)	Pass
Waterproof Integrity After Low Temp. Flexibility	Pass
Slip Resistance (ASTM D1970)	Pass
Low Temperature Flexibility (D1970)	Pass

Approx. Shipping Weights:

(Note: All approx. weights include container)

Weight per Roll	Approx. 55 lbs
Rolls per Pallet	25
Weight of Pallet	1400 lbs



APPLICATION:

Always follow local buildings codes for your specific region. Run TRI-BUILT® Ice & Water horizontally starting at the bottom edge of the roof with granular side up. Roll out materials onto existing roof deck and cut sheet to a suitable, workable length prior to placement. Align sheet with the lower edge of the roof (at the rake or side edge of roof) with the sheet extending over 1/4". Applications may require tacking of nails along upper edge of membrane to hold in place. Standing above the sheet on the roof deck, remove top half of release film from the sheet and apply firm even pressure from the center to the outer edges. Remove the release film from the remaining half of the sheet applying firm even pressure. Install in valleys, along roof edges or to seal penetrations as needed. For full coverage, install the next course, working up the slope of the roof, ensuring a minimum side overlap of 3" and an end overlap of 6". Ensure the sheet is applied over the area to cover the highest point of "ice damming". Where back-nailing is required, be sure that all nails are covered by the overlapping next sheet. Roll entire membrane surface, particularly end laps and side laps to ensure bonding of adhesive. Roller weight shall be 70 lbs. for low slope and 28 lbs. for steep slope. All penetrations must be sealed using Roof X Tender® RX-100 prior to installing primary roofing materials. Lower temperatures cause self-adhesive layer to lose adhesive quality. Product applied at lower temperatures may be back-nailed to hold in position during application. Adhesion to deck and at laps will occur as ambient temperature increase and after a return to warmer weather.

VENTILATION:

This product is designed to be an air, water and vapor barrier and will retard the flow of moisture vapors when applied over the entire roof deck. In this application, simply ensure the roof and attic are properly vented. Lack of ventilation can result in presence of moisture and deck deterioration and/or mold. Always consult a design professional to address potential moisture entrapment and condensation issues. This can be in the form of ridge vents, solar power vents, continuous ceiling vapor barrier or other ventilation products. Proper ventilation will help alleviate these concerns. In hot and arid climates, heat build up can result in drying, cracking and premature aging of roofing materials and therefore venting is also required in hot climates.

LIMITED WARRANTY:

TRI-BUILT® hereby warrants to the original purchaser, contingent upon presentation of original proof of purchase, that this product will be free from any and all manufacturing defects that may materially and adversely affect the product's performance for a period of one (1) year from the date of original purchase ("Warranty Period"). Should a manufacturing defect materially and adversely affect this product's performance, TRI-BUILT® shall, within its sole discretion and upon receipt of Purchaser's timely written notice within the Warranty Period, provide replacement product(s) or refund the purchase price of the defective product. THIS LIMITED WARRANTY IS PURCHASER'S SOLE AND EXCLUSIVE WARRANTY AND REPLACES ALL OTHER WARRANTIES, CONDITIONS, REPRESENTATIONS AND GUARANTEES, WHETHER EXPRESS OR IMPLIED, WHETHER BY STATUTE, AT LAW OR IN EQUITY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This limited warranty does not cover labor or installation costs, leaks, fastener penetrations or other holes in the membrane, exposure over 90 days, low slope roofs or materials not manufactured by TRI-BUILT®, consequential damages or incidental damages. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Direct all warranty claims in writing along with original proof of purchase to TRI-BUILT®, c/o Warranty Claims Department, P.O. Box 5449, Tampa, FL 33675. The exclusive venue for any legal action arising out of the purchase of this product or this warranty shall be had in a court of competent jurisdiction within Hillsborough County, Florida. Florida law shall govern.

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TECHNICAL DISCLAIMER:

To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. No guarantee of accuracy is given or implied.

