

TRI-BUILT® HYBRID ROOF UNDERLAYMENT

TRI-BUILT® Hybrid Roof Underlayment is a high quality roofing underlayment designed to shed water off your roof and away from your home or building. This Hybrid product uses advanced technology, combining the best properties of traditional organic felts and synthetic products. Advanced design creates a superior roof underlayment with faster and easier installation, as well as improved performance and durability.

Roof underlayments perform a vital role in protecting your home or building against damage from wind, moisture, rain, UV and other destructive elements. Unfortunately, most do not stand up to the test of time. Whether it is wind, water or UV damage, TRI-BUILT® Hybrid provides the most advanced protection in its class. Rest assured, you are protected from the elements with TRI-BUILT® Hybrid Premium Roof Technology.

- Wrinkle free, even when wet!
- High tear strength
- Extra tough & durable construction!
- Withstands extreme cold & blazing desert heat!
- Use in high wind areas where other products blow off!
- Nail Sealable
- Limited Lifetime Extended Warranty
- Exceeds ASTM D4869, D226 & D1970*

TRI-BUILT® Hybrid is an excellent underlayment for steep-slope roofing such as shingles, wood shake, tile, metal, slate and other roof coverings. TRI-BUILT® Hybrid acts as a secondary protection barrier. Underlayments will not prevent wind driven rain from entering the building without sealing laps. TRI-BUILT® Hybrid is not recommended for low slope roofs less than 2:12. Not recommended or designed as a permanent or primary roof covering.



TRI-BUILT Hybrid Technical Data

Size	37.25" x 145'
Area	4.5 Squares
Permeability ASTM E96	0.05 Perms
Water Transmission ASTM D4869	Pass
Tear ASTM D4073	75 lbf.
Breaking Strength ASTM D146	>55 lbf/in
Thickness (mm) ASTM D1777	0.60
Net Mass (g/m2) ASTM D5261	>460
Temperature Range	-40 °F to 240 °F
Pliability, ASTM D146	Pass
Dimensional Stability, ASTM F1087	Pass
Cold Flexibility, -25 °C, 6 hr D5147	Pass
Unrolling @ 32 °F & 140 °F ASTM D226	Pass
Nail Sealability, ASTM D1970-15	Pass



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PREPARATION AND REQUIREMENTS: Always follow local buildings codes for you specific region. Ensure the deck is dry, smooth and without voids or unsupported areas. Remove any and all existing nails, fasteners or staples. All decayed, rotting, rusted or broken materials must be removed and replaced before installing your 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. Verify with the 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 use a minimum of 1" long corrosive resistant nails with a minimum of 3/8" head (ring shank nail leg is recommended). Staples should NOT be used. If underlayment is left exposed more than five days, 1" UV resistant plastic caps or tin caps must be used. These caps may also be required as per local building codes. Check local codes prior to starting work. Hammer in all nails at a 90° angle to the roof deck. Nails should be snug and hammered flush to the deck with no spaces or gaps. Where you have seams, joints or tears that require sealant, use TRI-BUILT® approved sealants or tapes. It is recommended to seal laps when there will be exposure to high winds or driving rain. When installing in climates that experience freezing temperatures and when Limited Lifetime Extended Warranty is required, install TRI-BUILT® Ice & Water in all valleys and along all perimeter edges according to product instructions.

APPLICATION: (Steep Sloped Roofs over 4 :12): Before starting, always ensure that the deck has been properly prepared. Run material horizontally starting at the bottom edge of the roof with printed side up. Carefully set roll in place at the edge of the roof and unroll 2 - 3 feet. Align the underlayment to the edge of the rake and eaves, but not over the sides of the building. When the underlayment is properly positioned and straight, install 2 nails approximately 6 - 8" apart along top edge of the underlayment to hold it in place. Next, roll out TRI-BUILT® Hybrid Underlayment approximately half way across the roof, or about 20 - 25 feet. In windy conditions, work with approximately one half of this distance. Pick up the roll and pull until tight. Line up the edge of the roll with the eaves (bottom edge of the roof) and eliminate any wrinkles or buckles, then set underlayment in place. Next, standing above the underlayment, nail the top row of fasteners in place followed by the three required fasteners at the underlayment edge (vertical edge where roll started). Once complete, install the remainder of the nails in the quantity and pattern of the job requirements or local code requirements throughout the field of the underlayment. See Below for nail pattern options. Continue installation to rake or gable edge of roof. Install a minimum of three nails at the roof edge. Install successive layers of underlayment moving up the slope of the roof and parallel to the eaves and previous layer. Horizontal laps should be a minimum of 2 - 4" over the previous layer of underlayment depending on slope. Where two different pieces are required on vertical seams (start of a new or cut roll), overlap the ends a minimum of 6". All end laps in succeeding course should be located at least 6 ft. from the end laps in the preceding course. At all hip, valley and ridge locations, overlap adjoining layers a minimum of 6". Where the roof meets a vertical surface (walls, chimneys, etc), install TRI-BUILT® Hybrid 3 - 4" up the surface.

For Low Sloped surfaces (2:12 up to 4:12) and for projects requiring a Limited Lifetime Warranty, two plies of underlayment must installed. Begin by fastening a 19.5" wide strip of underlayment placed along the eaves. Next, place a full 37.25" wide sheet horizontally along the eaves completely overlapping the starter layer. All succeeding courses will be full width sheets and should be positioned to overlap previous layer by 19.25". For ease of application, a line printed on underlayment denoting this measurement.

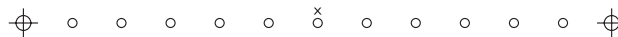
EXPOSURE LENGTH & PATTERN (<5 DAYS):

When installing primary roofing materials (shingles, tile, etc.) within five days of application, and there is no wind, fasten underlayment a minimum of 24" o/c at the center of the roll as well as both side laps. This is achieved by fastening a nail in every target symbol printed on the underlayment. The symbol for the 24 o/c pattern is:



EXPOSURE LENGTH & PATTERN (>5 DAYS):

When the underlayment is exposed longer than five days prior installing primary roofing materials (shingles, tile, etc) or if windy conditions are present, increase the number of fasteners as required. Fasten both outside laps at 12" o/c and the center of the roll at 18" o/c. Always check and follow local building codes and requirements for fastening patterns. Use the pattern guide to measure lengths with every dot measuring 2" and the midpoint of the 24" o/c marked with an "x".



VENTILATION: This product is designed to be an air, water and vapor barrier and will retard the flow of moisture vapors. TRI-BUILT® Hybrid should only be installed over properly vented substrates. High or excessive humidity can result in condensation and presence of moisture resulting in 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.

STANDARD ONE (1) YEAR LIMITED WARRANTY: TRI-BUILT® hereby warrants to the original purchaser, contingent upon 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 180 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. For additional Standard Limited Warranty information, visit www.tribuilt.com/pages/warranty