FT³ FLEECE-TOP® ROOF UNDERLAYMENT

COMPLIANCE: Exceeds ASTM D1970. Florida Building Code Approved. Miami-Dade County Product Control Approved.

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

Tri-Bond® Patented Technology has revolutionized the roofing and waterproofing industry through new advances in roof underlayment performance. Until now, even the most advanced underlayments were limited to a maximum of two distinct compounds for three different moisture protection requirements. Using only a single or even a dual compound system specifically ignores sealing the most critical area of the underlayment and results in multiple deficiencies which can lead to water intrusion and interior damage to your home or building. Using a three-pronged approach, the Tri-Bond "3 compound system" addresses all essential areas including the most critical, the outside lap edge. These custom formulations create an engineered system with far superior attributes at all three critical points within the waterproofing system. Demand more than a "one size fits all" approach. Demand Tri-Bond's "3 compound system." The only underlayment system engineered with three compounds for maximum waterproofing protection.

Reinforced Seam Technology: Weather-Armor FT³ Fleece-Top underlayment is also manufactured using RST (Reinforced Seam Technology). The use of RST targets the seams and overlaps with additional reinforcement to substantially increase the tensile strength. Additionally, RSTbeliminates stretching and warping of laps which occur in standard reinforced underlayments. By targeting the most critical areas with additional tensile strength and durability, the Weather-Armor FT³ membrane lays completely flat during installation. RST® helps the elimination of buckles, gaps and fish-mouths (the main entry point for water intrusion) and ultimately helps solve leak problems and improves the overall performance of your roof underlayment.

PRODUCT DESCRIPTION: APOC Weather-Armor FT³ Fleece-Top underlayment is a state of the art, high temperature premium roof underlayment and leak barrier that is ideally suited for tile and metal roofing systems, as well as where conditions require a mechanically fastened roof system. Weather-Armor® FT³ is specifically designed to resist temperatures up to 265 °F. Weather-Armor FT³ Fleece-Top utilizes Tri-Bond's patented 3 component adhesive system and RST making FT³ the strongest and most durable underlayment in its class. Manufactured with dual reinforcements, heavy weight polyester and high tensile glass reinforcement, FT³ provides exceptional strength, durability and waterproofing capabilities. FT³ is designed for use with foam adhesives, mechanically attached systems or hybrid systems which use both foam adhesives and mechanical attachments. This highly rubberized and flexible membrane helps keep your home or building dry, providing a cleaner and healthier indoor environment.

PRODUCT COMPOSITION: Weather-Armor FT³ Fleece Top underlayment is a patented blend of highly flexible and elastic polymers, high melt performance grade bitumen, heavy weight polyester and high tensile glass reinforcement. FT³ underlayment is easy to install and utilizes a split release film for easier positioning, faster installation and cleaner lines on every project.

USES

- Ideal for applications under Tile, Metal & other Roof Systems
- Ideal for High Temperature Applications
- Protects Against Wind Driven Rain & Water Intrusion
- Protects Against Ice & Water Dams
- Protects Against Spread of Fire

ENGINEERED BENEFITS

- Patented Tri-Bond 3 component Adhesive & Waterproofing
- High Strength Glass Provides Structural & Dimensional Stability
- Specialty Polymers create improved Adhesion, Flexibility & Elasticity
- High Melt Performance Grade Bitumen
- UV Protected & Temperature Resistant (180 Day Exposure)
- Tear & Puncture Resistant
- Safe-Step Polyester Surface
- UL Rated for Protection against Fire Damage
- 100% Waterproof & Nail Sealable
- Maximum Flexibility and Longevity

TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Size	39 3/8" x 65' 8"
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

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MADE IN THE USA

FALL PROTECTION WARNING: While this product features a non-skid and tear resistant surface, this feature does not serve as a substitute for following all 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 and 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.

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 roof underlayments. 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 reduced adhesion. If low temperatures are present during installation, product may be back-nailed to hold sheet in position. As temperatures heat up, adhesive will activate and bond with substrate and seams. Priming is not required for clean and dry wood roof decks. Concrete and masonry deck surfaces require priming with APOC 103 asphalt primer (meeting ASTM D41 standards).

APPLICATION: Always follow local buildings codes for you specific region. Run Weather-Armor FT³ horizontally starting at the bottom edge of the roof with polyester 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, at the lowest point of the roof, 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 working up the slope of the roof, ensuring a minimum overlap of 3" on side laps and 6" on end laps. Apply an approved SBS cement 1/8" thick between all end laps. 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 lb. for low slope and 28 lb. for steep slope. 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 will increase as ambient temperatures increase.

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, therefore venting is also required in hot climates.

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.

LIMITED WARRANTY: APOC 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, APOC 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 APOC, 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 APOC, 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.apoc.com/pages/warranty.

LIMITED EXTENDED WARRANTY ELIGIBILITY REQUIREMENTS: For information and eligibility requirements for APOC Roof Systems, Corp. ("APOC") LIMITED EXTENDED WARRANTY, visit www.apoc.com/pages/warranty.

Manufacturing Location:

Springville, AL

For more information visit apoc.com or call technical at (813) 248-2101, email technical@apoc.com

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See SDS for more info