



WEATHER ARMOR[®] HT³ HIGH TEMPERATURE PREMIUM ROOF UNDERLAYMENT

TECHNICAL DATA SHEET



TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Thickness (ASTM D1970)	60 mil
Maximum Load, MD/CD (ASTM D1970)	>25 lbf/in
Elongation at break, min. of modified bitumen portion (ASTM D1970)	>10%
Tear Resistance, MD/CD (ASTM D1970)	>60 lbf/in
Moisture Vapor Permeability (ASTM E96)	<0.1 perms
Adhesion to Plywood @40F (ASTM D1970)	>25 lbf/in
Adhesion to Plywood @75F (ASTM D1970)	>50 lbf/in
Sealability around nail (ASTM D1970)	Pass
Waterproof integrity after low temp. flexibility	Pass
Slip Resistance (ASTM D1970)	Pass
Low Temperature Flexibility (ASTM D1970)	Pass

Approx. Shipping Weights:

(Note: All approx. weights include container)

Weight per Roll	70 lbs
Rolls per Pallet	25
Weight of Pallet	1800 lbs

DESCRIPTION:

APOC[®] Weather Armor[®] HT³ High Temperature Premium Roof Underlayment is a state of the art, premium roof underlayment and leak barrier for use under metal, tile, shingle and slate roofing systems. Weather-Armor HT³ is manufactured using high melt bitumen, a high performance cross-laminated polypropylene surface and highly flexible rubber polymers. These ingredients optimize performance in hot climates and under high heat conditions. Weather-Armor HT³ is specifically designed to resist heat up to 265 °F. Weather-Armor HT³ also utilizes Tri-Bond's patented 3 component adhesive system. Weather-Armor HT³ is the strongest and most durable underlayment in its class and provides an ideal substrate when installing metal, tile, shingle, slate and other roof systems. This high performance waterproof membrane helps keep your home dry providing a cleaner and healthier indoor environment to live in. Weather Armor HT³ is a patented blend of highly flexible and elastic polymers, performance grade bitumen, high strength dimensional glass reinforcement and a cross laminated sheet surfacing. It is easy to install and utilizes a split release film for easier positioning, faster installation and clean lines on every project.

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).

CAUTION:

Always use personal fall protection devices when working on a roof and follow all proper fall protection procedures in accordance with OSHA and local regulatory requirements. 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.

APPLICATION:

Always follow local buildings codes for you specific region. Run APOC Weather Armor HT³ 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 working up the slope of the roof, ensuring a minimum overlap of 3" on side laps and 6" on 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

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PERSONAL PROTECTIVE EQUIPMENT



EYEWEAR



PROTECTIVE
CLOTHING



GLOVES

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 and at laps will occur as ambient temperatures increase and after a return to warmer weather.

COVERAGE RATE:

200 SQ. FT. | 39 3/8" X 65'8" | 2 SQUARES

PRECAUTIONS:

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, ensure the roof and attic are properly vented. Lack of ventilation can result in trapped moisture resulting in deck deterioration or formation of 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.

WARRANTY & DISCLAIMER:

Register your warranty for extended warranty terms within 60 days of the completion of the project at www.apoc.com/pages/warranty. APOC Roofing Systems, LLC hereby warrants to the original purchaser, contingent upon original proof of purchase, that this product will be free from any defects that may materially and adversely affect the product's performance for a period of one year from the date of original purchase.