

LeakBarrier® PS200^{HT} Ice and Water Armor

LeakBarrier PS200^{HT} Ice and Water Armor is a premium, SBS modified, glass fiber reinforced, self-adhesive modified bituminous roofing underlayment for use under tile, metal, slate and asphalt shingles. PS200^{HT} is manufactured with a specially engineered Hybrid Polymer



System formulation that allows the underlayment to withstand high temperatures (resistant up to 260° F). PS200^{HT} is surfaced with a polyester fabric on the upper layer to provide a non-abrasive surface that also offers excellent walkability.

Usage

LeakBarrier PS200^{HT} Ice and Water Armor helps to protect a building's deck or internal structure against leaks caused by ice and water damming and wind-driven rain. It is highly effective in critical roofing areas such as valleys, ridges, coping joints, chimneys, vents, dormers, skylights and low-slope sections.

Features and Benefits

- ◆ Polyester fabric surface allows for better walkability and cooler surface temperatures.
- ◆ Specifically designed for the demands of metal and tile roofing systems, with high temperature stability of 260° F, and polyester fabric surface for maximum walkability. Non-skid surface also helps prevent tile from sliding off the roof.
- ◆ Split-back release film peels off for easy installation and handling.
- ◆ 120 day exposure limitation allows for long term dry in.
- ◆ Adheres directly to concrete, plywood, wood composition board and gypsum sheathing decks.
- ◆ Self-sealing around nails preventing moisture penetration.
- ◆ Product available for multi climates.
- ◆ Functions as a vapor barrier for commercial roofing applications.
- ◆ Meets ASTM D1970
- ◆ Miami Dade County Approval NOA No. 12-0420.02
- ◆ ICC-ES ESR-2116
- ◆ Florida Building Code FL 10450-R4
- ◆ UL Prepared Roofing File No. R16744

Storage

- ◆ PS200^{HT} rolls must be stored indoors, in a dry location.
- ◆ Rolls must be stored on end only. Do not store in a leaning position.
- ◆ The rolls must be protected from the elements. Do not expose rolls to direct sunlight.
- ◆ Store rolls at room temperature. Prolonged exposure to elevated temperatures may reduce the adhesive characteristics of the membrane.

General Precautions

- ◆ Install PS200^{HT} only when material interface temperatures (air, deck, material) are 40° F and rising.
- ◆ Do not install when any form of moisture such as water, ice, snow, dew, rain, etc. is present.
- ◆ Ensure roof has positive drainage prior to installation.
- ◆ Proper ventilation is critical. When applying over the entire roof deck, the roofing system must provide sufficient ventilation, including both ridge and soffit venting.
- ◆ A full, irreversible adhesion is achieved when the underlayment goes through a complete heat cycle. Do not attempt to remove the underlayment immediately after adhesion to the substrate.
- ◆ Use of a hand-held "hot air gun" might help in enhancing adhesion during application of underlayment in cooler weather.
- ◆ (*Applicable for the State of Florida only*) All tiles shall be staged (two tiles perpendicular to slope, four tiles on top parallel to slope), not to exceed 6 high. When

installing flat tiles and lugged tiles above 6:12 roof pitch, PS200^{HT} shall be installed behind a nominal 1" x 2" horizontal batten.

PS200^{HT} must be covered with a finished roof covering within the specified exposure time of the product. Refer to section on Features and Benefits for exposure times.

Surface Preparation

- Surface must be clean, dry, and without voids that may interfere with adhesion.
- For re-roofing, all old roofing and other loose materials must be removed prior to installation.
- Acceptable substrates for adhesion of LeakBarrier

membranes can be found at the Tarco website.

- For best results, surface may be primed with an ASTM D41 Primer prior to installation of PS200^{HT}. When primer is used, ensure the primer is fully dry prior to application of PS200^{HT}.

Application

- Cut the PS200^{HT} roll to suitable, manageable lengths before installation.
- Place a full width piece of the pre-cut PS200^{HT} underlayment on the substrate, parallel to the eave (low) edge of the roof.
- Align PS200^{HT} so that it is parallel with the edge of the eave and extend over the eave and rake approximately 3/8".
- Place the side lap on the up side of the roof, fold back the sheet, and remove the exposed release film, taking care not to displace the sheet.
- Working from the center out, roll the sheet onto the substrate, taking care to avoid wrinkles and ridges. PS200^{HT} must be set straight. Repeat this process for the remaining half of the sheet.
- Apply a 1/16" thick layer of asphalt plastic cement over the eave and rake metal drip edges extending 2" to 3" onto the deck surface where the roll will intersect.
- Apply full roll width, a 1/16" thick layer of asphalt plastic cement to the surface of the first course in the 6" end lap area before adhering the next course.
- Apply the next eave course in the same manner overlapping the first course at the end lap by 6".
- Remove release film covering the selvage, if present, prior to application of the next sheet.
- Lap the succeeding course over the lap area just to the fabric edge of the preceding course.
- Apply succeeding courses in like manner, as in steps above.
- Stagger the end laps a minimum 3' from the preceding course.
- Install capped or tin tagged nails 6 inches on center in the middle of the selvage edge (side lap) or fasten according to applicable building codes.
- At the T-joint (where an end lap and next overlapping course intersect), apply a bead of roofing lap cement before the overlapping course is laid.
- Roll the entire membrane surface, paying special attention to side laps, end laps and T-joints. Roller weight shall be 70 lb. minimum for low slope (<2:12 pitch) and 28 lb. minimum for steep slope (>2:12 pitch).

Properties

Property	Typical Values	Reference Test	Property	Typical Values	Reference Test	Product Data	
Tensile Strength, MD	34 lbf/in	ASTM D 970	Flexibility Temperature	-20° F	ASTM D1970	Width	36 in
Tensile Strength, XMD	28 lbf/in	ASTM D1970	Tear Resistance, MD & XMD	20 lbf	ASTM D1970	Length	66 ft 8 in
Elongation, mod. bit. portion	10% min	ASTM D1970	Slip Resistance	Pass	ASTM D1970	Weight	55 lb (nominal)
Adhesion to Plywood @ 40° F	2 lb/ft of width	ASTM D1970	Compound Stability	260° F	ASTM D5147	Thickness	60 mil (nominal)
Adhesion to Plywood @ 75° F	20 lb/ft of width	ASTM D1970	Moisture Vapor Permeance	0.1 U.S. Perms (max)	ASTM D1970	Gross Coverage	2 squares
Thermal Stability, max	0.1 in	ASTM D1970					

Warranty Tarco Specialty Products, Inc. offers a 30 Year Limited Warranty

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