

## LeakBarrier® PS200<sup>HT</sup> Ice and Water Armor



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application video

**LeakBarrier PS200<sup>HT</sup> 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<sup>HT</sup> is manufactured with a specially engineered Hybrid Polymer



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



**Usage** **LeakBarrier PS200<sup>HT</sup> 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.
- ◆ 180 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. 18-1105.05
- ◆ ICC-ES ESR-2116
- ◆ Florida Building Code FL 10450-R10
- ◆ UL Prepared Roofing File No. R16744

### Storage

- ◆ PS200<sup>HT</sup> 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<sup>HT</sup> 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 six high. When

installing flat tiles and lugged tiles above 6:12 roof pitch, PS200<sup>HT</sup> shall be installed behind a nominal 1" x 2" horizontal batten.

- ◆ Not recommended for extreme high temperature

environments such as under copper or zinc metal roofing.

- ◆ PS200<sup>HT</sup> 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<sup>HT</sup>. When primer is used, ensure the primer is fully dry prior to application of PS200<sup>HT</sup>.

## Application

- ◆ Cut the PS200<sup>HT</sup> roll to suitable, manageable lengths before installation.
- ◆ Place a full width piece of the pre-cut PS200<sup>HT</sup> underlayment on the substrate, parallel to the eave (low) edge of the roof.
- ◆ Align PS200<sup>HT</sup> 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<sup>HT</sup> 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 ( $\leq 2:12$  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	70 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

**NOTE:** All statements, information and data, given herein are believed to be accurate and reliable but are presented without guaranty, warranty or responsibility of any kind, expressed or implied, except as may be indicated otherwise in this literature. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.

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