

LeakBarrier® FS500HT

LeakBarrier FS500HT is a premium, non-reinforced roofing underlayment comprising specially formulated rubberized asphaltic adhesive and surfaced with a cross laminated HDPE film structure that is uniquely treated to provide enhanced skid resistance. The rubberized asphalt-based adhesive withstands high temperature conditions up to 250°F and self-seals around nails.

Usage **LeakBarrier FS500HT** is a premium ice & water shield designed to prevent 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 other flashing areas, and is well suited for use in metal and mechanically fastened tile roof systems.

Features and Benefits

- ◆ Dual Protection: Rubberized asphalt and polyolefinic film laminate form two distinct water barriers
- ◆ Self-Sealing: Rubberized asphalt self-seals around nails
- ◆ High Temperature Resistant: Withstands temperatures to 250°F
- ◆ Exceptional Durability: High tensile and tear strengths
- ◆ Excellent Walkability: Anti-skid treatment on the film surface provides good traction
- ◆ Instant Watertight Laps: Self-adhesive coating on the side lap for immediate bond
- ◆ Versatile: Adheres to a wide variety of substrates
- ◆ Easy to Handle: Very pliable and easy to install
- ◆ Aesthetically Pleasing: White colored film provides cooler working surface
- ◆ Superior UV Resistance: Surface stays intact when exposed to the elements
- ◆ Extended Exposure Time: Can be left exposed for up to 60 days

Storage

- ◆ LeakBarrier FS500HT must be stored indoors, in a dry location.
- ◆ Store boxes on end only. Do not store in a leaning position.
- ◆ FS500HT must be protected from the elements. Do not store product in direct sunlight.
- ◆ Store FS500HT at room temperature. Prolonged exposure to elevated temperatures may reduce the adhesive characteristic of the material.

General Precautions

- ◆ Install material in strict compliance with applicable Building Code.
- ◆ Follow Occupational Safety and Health Administration (OSHA) safety standards; use common sense measures and adequate precautions to prevent accidents.
- ◆ Install FS500HT 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.
- ◆ Ensure proper ventilation of the attic.
- ◆ Do not use FS500HT as the primary weather resistant roof covering.
- ◆ Do not apply over existing roofing material.
- ◆ Not recommended for extreme high temperature environments such as under copper or zinc metal roofing.
- ◆ FS500HT 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 time.



Surface Preparation

- The substrate shall be clean and dry prior to installing FS500^{HT}.
- For re-roofing, all old roofing and other loose material 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 FS500^{HT}. When primer is used, ensure the primer is fully dry prior to application of FS500^{HT}.

Application Guidelines

- Cut the FS500^{HT} roll to suitable, manageable lengths before installation.
- Place a full width piece of the sheet parallel to the eave (low) edge of the roof.
- Align the sheet so as to eliminate wrinkles and keep the sheet even with the eave edge.
- Fold back the sheet and remove the exposed release liner.
- Working from the center out, roll the sheet onto the substrate, taking care to avoid wrinkles and ridges.
- Sheet must be set straight. Repeat this process for the other half of the sheet.
- Apply the next eave course in the same manner, overlapping the first course at the end lap by 6'.
- Align the next roll over the preceding sheet so as to form a minimum 3.5" side lap and 6" end lap or as per applicable Building Code. Then install sheet, as instructions above.
- Stagger the end laps a minimum of 36" (3') from the preceding course.
- In steep slope applications where backnailing is required, ensure all nails are covered by the subsequent sheet.
- Apply subsequent courses in the same pattern and technique over the preceding sheets.
- When applying material in valleys, start at the low point and work to the high point.
- 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
Thickness	40 mil (1.0 mm)	ASTM D1970	Tear Resistance	30 lbf	ASTM D1970
Tensile Strength	400 psi	ASTM D412 (Die C)	Slip Resistance	Pass	ASTM D1970
Elongation, Rubberized Asphalt	>300%	ASTM D412 (Die C)	Nail Sealability	Pass	ASTM D1970
Adhesion to Plywood @ 40°F	4 lb/ft of width	ASTM D903	Waterproof Integrity of Lap Seams	Pass	ASTM D1970
Adhesion to Plywood @ 75°F	20 lb/ft of width	ASTM D903	Compound Stability	250°F	ASTM D1970
Flexibility Temperature	-22° F	ASTM D1970	Moisture Vapor Permeance	0.05 U.S. Perm or less	ASTM E96
Adhesion to Plywood @ 75°F	15 lb/ft of width	ASTM D1970			

Product Data

Width	36 in
Length	66 ft 8 in
Gross Coverage	2 sq
Weight	55 lb (nominal)
Thickness	40 mil (nominal)

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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