

## LeakBarrier® SS400 Ice and Water Armor

**LeakBarrier SS400 Ice and Water Armor** is a self-adhesive modified bituminous roofing underlayment reinforced with a heavy weight fiberglass mat for use under tile, slate, and asphalt shingles. Glass fiber reinforcement on the upper surface provides enhanced skid resistant properties.

**Usage** **LeakBarrier SS400 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

- ◆ Lightweight – Easy to carry and install
- ◆ Skid resistant glass fiber surface provides improved footing
- ◆ Split-back release film peels off for easy installation and handling
- ◆ 30 day exposure limit
- ◆ Adheres directly to concrete, plywood, wood composition board, and gypsum sheathing
- ◆ Self-sealing around nails, preventing moisture penetration
- ◆ Packaged in paper wrappers. No bulky (empty) boxes to dispose of.
- ◆ Meets ASTM D1970
- ◆ Miami-Dade County Approval NOA No. 12-0420.02
- ◆ Florida Building Code FL 10450-R4



### Storage

- ◆ SS400 rolls must be stored indoors, in a dry location.
- ◆ Rolls must be stored on ends only. Do not store in a leaning position.
- ◆ The rolls must be protected from the elements. Do not expose to direct sunlight.
- ◆ Store rolls at room temperature. Prolonged exposure to the elevated temperatures may reduce the adhesive characteristics of the membrane.

### General Precautions

- ◆ Install SS400 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 proper 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 the adhesion during application of underlayment in cooler weather.
- ◆ SS400 must be covered with a finished roof covering within the specified exposure time of the product. Refer to the section on Features and Benefits for exposure time.

### 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 D 41 Primer prior to installation of SS400. When primer is used, ensure the primer is fully dry prior to application of SS400.

## Application

- ◆ Cut SS400 roll to suitable, manageable lengths before installation.
- ◆ Place a full width piece of the pre-cut SS400 underlayment on the substrate, parallel to the eave (low) edge of the roof.
- ◆ Align SS400 so that it is parallel with the edge of the eave and extend over the eave and rake approximately 3/8".
- ◆ 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. SS400 must be set straight. Repeat this process for the remaining half of the sheet.
- ◆ Apply a 1/16" thick layer of roofing lap cement over the eave and rake metal drip edges extending 2" to 3" onto the deck surface where the roll will intersect.
- ◆ Apply the next eave course in the same manner overlapping the first course at the end lap by 6".
- ◆ Lap the succeeding course over the lap area.
- ◆ 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	Product Data
Tensile strength, MD & XMD	25 lbf/in	ASTM D 1970	Width 36 in
Elongation, mod. bit. portion	10% min	ASTM D1970	Length 66 ft
Adhesion to plywood @ 40°F	2 lb/ft of width	ASTM D1970	Weight 50 lb (nominal)
Adhesion to plywood @ 75°F	15 lb/ft of width	ASTM D1970	Thickness 48 mil (nominal)
Thermal stability, max	0.1 inch	ASTM D1970	Gross Coverage 2 Sq
Flexibility temperature	-20°F	ASTM D1970	
Tear Resistance, MD & XMD	20 lbf	ASTM D1970	
Slip Resistance	Pass	ASTM D1970	
Moisture Vapor Permeance	0.1 U.S. perms (max)	ASTM D1970	

**Warranty** SS400 Ice and Water Armor is warranted to be free from manufacturer's defects.

**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 such use is free of patent infringement and are not recommendations to infringe any patent.

# Tarco

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