



Advanced Composite Technology

ROOFING



# AC TileSeal

## Tile Underlayment

For Use with Foam-In or Mechanically Fastened Tile Roofing Systems

### KEY PROPERTIES

- Passes Dade County TAS 103 Test of 10 Stacked Tiles
- Superior Slip Resistant Surface
- Excellent Adhesion Surface for Tile Foams
- Exceptionally Stable Under High Heat
- No Special Adhesives

### DESCRIPTION

AC TileSeal is a proprietary, patented underlayment, uniquely designed for use under tile, slate or metal roofing systems. AC TileSeal consists of a proprietary modified asphalt and a woven polyester. The woven polyester surface aggressively bonds with foam used in tile installation and can withstand stacked tiles without slippage or damage to the membrane surface. It also provides traction for roofers during installation of the primary roofing system.

AC TileSeal is a self adhesive tile underlayment. No special adhesives, heat or equipment are necessary during installation.

AC TileSeal composite is available in rolls of 200 sq. ft. (18.6 sq. m.), 3' x 66.6' (0.9m x 20.3m).

### USES

AC TileSeal is an innovative, patented underlayment for use beneath tile, slate and metal roofing. AC TileSeal protects against wind driven rain by bonding to the roof deck and sealing around fastener penetrations. AC TileSeal can withstand roof temperatures of up to 260° F (126° C) and can be left exposed for a maximum of 120 days.

### APPLICATION

- The deck must be clean, dry and free from loose materials and contaminants. AC TileSeal should be installed when ambient and substrate temperatures are 40°F (4.4°C) or higher.
- Some codes require an additional course under AC TileSeal. Check your local building codes and use a base sheet that meets ASTM D 226, Type II or ASTM D2626 if one is required. Apply the base sheet parallel to and abutting the eave. Apply the metal drip edge over the base sheet and nail 9" on center. End laps should be 6" and side laps a minimum of 4". Mechanically fasten the base sheet to deck with approved nails, staples or cap nails 6" on center at the laps and two staggered rows 12" on center in the field of the roll. Cover entire roof with the base sheet. Coat the top of the drip edge with a 2" wide troweling of modified bitumen adhesive.
- If an additional course is not used under AC TileSeal, place the metal drip edge directly on the deck and seal the leading edge as described above.
- Install AC TileSeal in all valleys. Follow the National Tile Roofing Association Sealed System guidelines with the added step of nailing 9" on center, 1" in from edge on all end laps.
- Once AC TileSeal has been installed in the valley, apply AC TileSeal to the main roof, starting at the eave. The first course of AC TileSeal should be parallel to and abutting the eave.
- All metal flanges shall be primed with asphalt primer prior to installation of AC TileSeal.

<b>TECHNICAL DATA</b> <b>AC TileSeal</b>		
PROPERTY	TEST METHOD	MINIMUM VALUE
Tensile Strength	ASTM D 412	100 lbs/in (1428 psi)
Elongation (Rubberized Asphalt)	ASTM D 412	250%
Low Temperature Flexibility -25°F (-32°C)	ASTM D 1970	Unaffected
Thermal Stability/Sag 200°F (93°C)	ASTM D 1970	Pass
Adhesion to Plywood	ASTM D 903	9 lb/in (528 N/M)
Permeance	ASTM E 96	0.01perms (max)

- For steep slope roofs (above 7" in 12"), secure AC TileSeal with either nails, staples or cap nails, placed 6" (150mm) on center only in the black seldvege and overlap areas.

- Overlap each succeeding course 3" (75mm) and 6" (150mm) on the endlaps.

## STANDARDS AND CODE LISTINGS

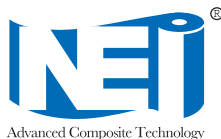
- Miami-Dade roduct Control Approved No. 03-0716.01

## PATENT # - US 6,296,912 B1

## SAFETY, STORAGE AND HANDLING

Pallets of AC TileSeal shall not be double stacked on the job site. Provide cover on top and sides, allowing for adequate ventilation.

Consult Material Data Safety Sheet for best available information on the safe handling, storage, personal protection, health and enviromental considerations.



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