

TS600 ICE & WATER HT

SBS Modified, Self-Adhesive Roofing Underlayment



TopShield[®] TS600 HT Ice & Water is a state-of-the-art SBS modified, non-reinforced, self-adhesive roofing underlayment for use under tile, metal, slate, and asphalt shingles. Surfaced with a highly durable polyester reinforcement that provides exceptional strength and excellent walkability, TS600 Ice & Water HT is specially formulated for use in high temperature environments and self-seals around nails. The unique self-adhesive compound on the side lap ensures an immediate bond between adjacent rolls, resulting in instant watertight laps.

FEATURES AND BENEFITS

- Clean, easy to handle, self-adhering application
- Specially formulated SBS compound withstands temperatures to 260°F
- Self-sealing around nails preventing moisture penetration
- Self-adhesive coating on the side lap yields instant watertight laps
- Ultra violet (UV) resistant polyester fabric surface
- Approved for use with several foam adhesives for attachment of tiles
- Can withstand 10-tile high stacking
- High tensile and tear strengths
- Good walkability
- Enhanced skid resistance
- 360-day exposure allows for long term dry-in
- Adheres to a variety of substrates
- Membrane lays flat and resists wrinkling for ease of application
- Meets ASTM D1970
- Miami-Dade County approved
- Florida Building Code approved
- ICC approved
- TDI (Texas Dept. of Insurance) approved
- Fortified Roof™ qualified

USAGE

TopShield[®] TS600 HT Ice & Water is a premium underlayment designed to prevent leaks caused by Ice & Water damming and wind-driven rain. Ideally suited for use in mechanical and foam-attached tile roof systems, it is also an excellent choice as an underlayment for shingles, slate, and metal. TS600 HT Ice & Water is highly effective in critical roofing areas such as valleys, ridges, coping

STORAGE

- TS600 Ice & Water HT rolls must be stored indoors, in a dry location.
- Rolls must be stored on end only. Do not store in a leaning position.
- Rolls must be protected from the elements. Do not expose to direct sunlight.
- Store rolls at room temperature. Prolonged exposure to elevated temperatures may reduce the adhesive characteristics of the material

GENERAL PRECAUTIONS

- Install TS600 Ice & Water HT in strict compliance with applicable Building Code.
- Install rolls 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 slope and drainage prior to installation.
- TS600 Ice & Water HT is considered a vapor barrier. Proper ventilation is critical. Ensure installation does not interfere with existing ventilation.
- When applying over the entire roof deck, the roofing system must provide sufficient ventilation.
- 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.
- TS600 Ice & Water HT shall not be torched or hot-mopped to.
- TS600 Ice & Water 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 time.
- (Applicable for the State of Florida only): Tiles shall be staged (four tiles perpendicular to the slope, six tiles on top parallel to the slope), not to exceed ten high. When installing flat tiles and lugged tile above 6:12 roof pitch, TS600 Ice & Water HT shall be installed behind a nominal 1" x 2" horizontal batten.
- Follow Occupational Safety and Health Administration (OSHA) safety standards; use common sense measures and adequate precautions to prevent accidents.

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SURFACE PREPARATION

- The substrate shall be clean, dry, and without voids when installing TS600 Ice & Water HT.
- Old roofing and other loose material must be removed before installation.
- Acceptable substrates for adhesion of membranes can be found at the SRS website.
- Surface may be primed with an ASTM D41 primer, water-based acrylic primer or water-based modified primer prior to installing TS600 Ice & Water HT. If primer is used, ensure it is fully dry before application of the membrane.

APPLICATION GUIDELINES

- Cut the TS600 Ice & Water HT roll to suitable, manageable lengths before installation.
- Apply an ASTM D41 primer, water-based acrylic primer or water-based polymer-modified primer over the eave and rake metal drip edges extending onto the deck surface where the roll will intersect.
- Place a full width piece of the pre-cut TS600 Ice & Water HT underlayment onto the approved substrate, parallel to the eave (low) edge of the roof.
- Align TS600 Ice & Water HT so that it is parallel with the edge of the eave and extend over the eave and/or rake approximately 3/8".
- Fold back the sheet, and carefully 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 TS600 Ice & Water HT must be set straight. Repeat this process for the other half of the sheet once the remaining release film has been removed.
- On slopes greater than 2:12, install capped or tin tagged nails 6" on center in the side lap area 1 1/2" from the edge, in the middle of the side lap area or fasten according to applicable Building Code after the TS600 Ice & Water HT has been applied and prior to the overlapping of the next course.

PROPERTY

PROPERTY	TYPICAL VALUES	REF. TEST
Tensile Strength, MD & XMD	35 lbf/in	ASTM D1970
Elongation, Mod. Bit. Portion	100% min	ASTM D1970
Adhesion to Plywood @ 40°F	2 lb/ft of width	ASTM D1970
Adhesion to Plywood @ 75°F	20 lb/ft of width	ASTM D1970
Thermal Stability, Max.	0.1 in	ASTM D1970
Compound Stability	260°F	ASTM D1970
Flexibility Temperature	-20°F	ASTM D1970
Tear Resistance, MD & XMD	30 lbf	ASTM D1970
Slip Resistance	Pass	ASTM D1970
Moisture Vapor Permeance	0.05 US Perm or less	ASTM D1970
Sealability Around Nails	Pass	ASTM D1970
Waterproof Integrity of Lap Seams	Pass	ASTM D1970

PRODUCT DATA

Width	36 in
Length	72 ft
Thickness	60 mil (nominal)
Gross Coverage	216 sq ft
Weight	55 lb (nominal)
Rolls Per Pallet	20



WARRANTY:

TS600 Ice & Water HT 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 any such use is free of patent infringement and are not recommendations to infringe any patent.