

## WINTERGUARD™ HT

### Advanced Waterproofing Underlayment

#### Product Information

**Product Use:** WinterGuard™ HT (High Tack, High Temperature) is an advanced waterproofing underlayment for shingle, metal, slate and tile roofs. It is specially formulated to resist high roof temperatures under metal roofs.

**Product Composition and Features:** WinterGuard HT is a self-adhering waterproofing membrane composed of a tough, fiber glass scrim reinforcement that is impregnated and coated with SBS modified asphalt. WinterGuard HT has a tough, tear-resistant film on its top surface that will not scratch roofing metal applied over it. The adhesive bottom surface of WinterGuard HT is protected with a disposable silicone-coated release film, which is split longitudinally down the middle for easier application.

**Applicable Standards:** WinterGuard HT underlayment is manufactured on state-of-the-art, dedicated roof lines. WinterGuard HT meets or exceeds ASTM D 1970; UL 790: Classified for use as underlayment beneath Class A, B, or C fire rated shingle systems. ICC ESR-1492.

**Limitations:** Do not expose WinterGuard HT permanently to sunlight. Cover WinterGuard HT as soon as possible with a permanent roof surface. The maximum exposure time is six months. WinterGuard HT will not adhere to wet or cold surfaces. Refer to instructions on the carton for additional nailing and sealing instructions. WinterGuard HT is a vapor barrier. Therefore, if WinterGuard HT is applied over a majority of the roof deck, proper deck ventilation must be provided. If WinterGuard HT must contact sealants or cements, use solvent-based products sparingly, following manufacturer's instructions carefully. Excessive use of solvent-based adhesives can damage WinterGuard HT's polymer modified asphalt coating. Do not use silicone-based sealants, as they do not maintain adequate long-term adhesion to asphalt. Low-slope application: WinterGuard HT can be applied beneath shingles, slate and tile to acceptable decks with slopes of 2"/12" or greater and beneath metal to acceptable decks with slopes of 0.5"/12" or greater. See grid below for minimum allowable slopes. WinterGuard HT is specially designed to withstand temperatures up to 250° F. WinterGuard HT may become slippery under certain weather conditions. When this occurs, avoid walking or crawling on the product.

#### WINTERGUARD – MINIMUM ALLOWABLE APPLICATION SLOPES

**Applied Beneath**

Shingles:	2"/12"
Metal:	0.5"/12"
Tile:	2"/12"
Slate:	2"/12"

#### Technical Data

<u>Description</u>	<u>HT film</u>
Roll Area (sq. ft.)	195
Roll Length (ft.)	65
Roll Width (ft.)	3
Thickness (mils. typical)	45
Side Laps (in.)	4
End Laps (in.)	6
Shipping Weight (approx. lb./roll)	54
Packaging (rolls/carton)	1
Packaging (cartons/pallet)	20

## Technical Data

### **Tensile Strength & Elongation per ASTM D412, Die C**

Machine Direction: 1,022 psi, 251% elongation

Cross Direction: 625 psi, 135% elongation

### **Tensile Strength & Elongation per ASTM D1970**

Machine Direction: 32 lb/in (708 psi), > 300% elongation

Cross Direction: 31 lb/in (677 psi), 225% elongation

### **Pliability @ -25F per ASTM D146**

Passed

### **Adhesion to Plywood @ 77F per ASTM D1970**

7 lb/in (83 lb/ft)

### **Moisture Vapor Permeance per ASTM E96**

< 0.1 perms

## Product Application

**Storage:** Store WinterGuard HT rolls in their packaging in a dry, protected area at a temperature not exceeding 110° F.

**Deck Preparation:** Clean the roof deck until it is free of dirt, dust, nails and other materials. Providing a clean, dry and smooth deck surface is important to assure proper adhesion of the WinterGuard HT to the deck. Before application to existing roofs, remove all roofing materials including the roofing felt and nails.

**Priming:** Priming is not necessary for clean and dry wood decks. Concrete and masonry deck surfaces and oily metal surfaces require priming with an asphalt primer meeting ASTM D 41 standards, such as CertainTeed's FlintPrime™, or equivalent. Before WinterGuard HT is applied, primer must be dry. Follow manufacturer's instructions for the application of the primer.

Apply by the "peel and flop" method, utilizing the two-piece split-sheet release film feature to adhere longitudinal halves, one at a time. It is best to cut the product into manageable lengths of about 10 feet when applying WinterGuard HT by this method.

Applying WinterGuard HT is strongly recommended wherever there is a possibility of ice build-up. Many building codes require that the upper edge of ice dam protection extend no less than 24" beyond the interior wall line of the exterior walls. In areas of severe icing, it is recommended that WinterGuard be applied at least up to the highest water level expected to occur from ice dams. In order to assure waterproofing, overlap all membrane side laps and end laps per technical data table, press all overlaps firmly with a membrane seam roller, and offset end laps at least 2' from course to course.

**Application of Drip Edges at Rakes and Eaves:** At the rake, the drip edge may be installed under or over WinterGuard. At the eaves, when the WinterGuard HT does not overlap the gutter or fascia, the drip edge must be installed under WinterGuard HT. At the rake or eaves, when WinterGuard HT overlaps the gutter or fascia, drip edge or other metal must be installed over the WinterGuard HT to protect it against damage from exposure.

**Low-Slope Shingle, Metal, Slate or Tile Application:** WinterGuard HT can be applied under these roofing materials to provide protection against the infiltration of wind-driven rain on low slope applications.

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