

Technical Data Sheet

WinterGuard®HT Waterproofing Underlayment
WinterGuard®Sand Waterproofing Shingle Underlayment
WinterGuard®Granular Waterproofing Shingle Underlayment



NOTE: Reference to WinterGuard without specific reference to HT, Sand or Granular relates to all three products.

PRODUCT INFORMATION

WinterGuard products are most commonly used in critical areas such as roof eaves, valleys, and as a waterproofing underlayment for low-slope shingle, metal (HT only), slate, and mechanically-fastened tile roofing applications. 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. WinterGuard Sand and Granular underlayments are designed for use on roof decks as a waterproofing barrier beneath shingle, slate and tile roofs to prevent leakage due to water back-up from ice dams or wind-driven rain.

Limitations:

- Do not expose WinterGuard permanently to sunlight. Cover WinterGuard as soon as possible with a permanent roof surface. The maximum exposure time is six (6) months.
- WinterGuard will not adhere to wet or cold surfaces. For cold weather tack down, use only roofing nails. Under no circumstances should staples be used with WinterGuard products. Refer to instructions on the carton for additional nailing and sealing instructions.
- Do not apply WinterGuard over shingles or underlayment of any sort.
- WinterGuard is a vapor barrier. Therefore, if WinterGuard is applied over a majority of the roof deck, proper deck ventilation must be provided.
- If WinterGuard must contact sealants or cements, use solvent-based products sparingly, following manufacturer's instructions carefully. Excessive use of solvent-based adhesives can damage WinterGuard'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 mechanically-fastened 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. WinterGuard Sand and Granular products can be applied beneath shingles, slate and mechanically-fastened tile to acceptable roof decks with slopes of 2"/12" or greater. See grid below for minimum allowable slopes.
- WinterGuard HT is specially designed to withstand temperatures up to 250°F.
- WinterGuard may become slippery under certain weather conditions. When this occurs, avoid walking or crawling on the product.

WINTERGUARD – MINIMUM ALLOWABLE APPLICATION SLOPES

Applied Beneath	WinterGuard HT	WinterGuard Sand	WinterGuard Granular
SHINGLES	2"/12"	2"/12"	2"/12"
METAL	0.5"/12"	Not Recommended	Not Recommended
TILE	2"/12"	2"/12"	2"/12"
SLATE	2"/12"	2"/12"	2"/12"

Product Composition:

WinterGuard is a self-adhering waterproofing membrane composed of a tough reinforcement that is impregnated and coated with SBS-modified asphalt. WinterGuard is available in three finishes: sand, granular, and film. WinterGuard Sand and Granular have top surfaces consisting of mineral matter (sand or granules) to enhance traction during application. WinterGuard HT has a tough, tear resistant film on its top surface that won't scratch metal roofing applied over it. The adhesive bottom surface of all WinterGuard products is protected with a disposable silicone-coated release film, which is split longitudinally down the middle for easier application.

Applicable Standards: ASTM D 1970
 ICC ESR-1492 Florida Product Approval # FL 11288
 Miami-Dade Product Control Approved CSA A123.22
 UL 790: Classified for use as underlayment beneath Class A, B, or C fire rated shingle systems

WinterGuard Products by Surface Finish

PHYSICAL DATA

	Sand (short)	Sand	Granular	HT (film)
Roll Area (sq.ft.)	97.5	195	195	195
Roll Length (ft.)	32.5	65	65	65
Roll Width (ft.)	3	3	3	3
Thickness (mils. typical)	60	60	60	45
Side Laps (in.)	6	6	4	4
End Laps (in.)	6	6	6	6
Shipping Weight (approx. lb/roll)	36	68	68	51
Packaging (cartons/pallet)	30	20	20	20

TECHNICAL DATA

Per ASTM D1970	ASTM Test	Requirement	Granular	Sand	HT film
Maximum Load at Break MD CMD	D2523	≥ 25 lbf/in	Pass Pass	Pass Pass	Pass Pass
Elongation at Break (Modified Bitumen Portion)	D2523	≥ 10%	Pass	Pass	Pass
Adhesion to Plywood (75°F)	D903	≥ 12 lbf/ft	Pass	Pass	Pass
Thermal Stability	D1204	≤ 3 mm	Pass	Pass	Pass
Flexibility Temperature	D1970	Pass @ -20°F	Pass	Pass	Pass
Tear Resistance MD CMD	D4073	≥ 20lbf/in	Pass Pass	Pass Pass	Pass Pass
Moisture Vapor Permeance	E96	≤ 0.1	Pass	Pass	Pass
Sealability Around Nail	D1970	No Leakage	Pass	Pass	Pass
Waterproof Integrity of Laps	D1970	No Leakage	Pass	Pass	Pass

INSTALLATION

Storage: Store WinterGuard 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 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 is applied, primer must be dry. Follow manufacturer’s instructions for the application of the primer.

Membrane Application at the Eaves for Ice Dam Protection: WinterGuard can be applied in any length convenient to the applicator. First, align unrolled material with lower edge of roof and hold in place. Lift starting end of material approximately 1 foot, peel back and fold under at least 6 inches of both sheets of protective release film. Carefully return the exposed adhesive surface to the deck and press firmly in place. If, at lower temperatures, the material does not adhere immediately, tack it in place with roofing nails. Under no circumstances should staples be used with WinterGuard products. Reroll material from the other end until the peeled and folded back film is exposed.

Beginning with the folded back film, peel both sheets of the remaining film from the roll, pulling parallel to the eave. Be sure all material lays flat without wrinkling and is well adhered.

Alternatively, 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 by this method.

Applying WinterGuard 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 inches 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 above, press all overlaps firmly with a membrane seam roller, and offset end laps at least 2 feet from course to course.

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

Low-Slope Shingle, Metal, Shake, or Tile Application: WinterGuard can be applied under these roofing materials to provide protection against the infiltration of wind-driven rain on low-slope applications. If applied to cover the entire roof, ensure sufficient ventilation to avoid condensation. WinterGuard HT can be applied beneath shingles, slate and mechanically-fastened 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. WinterGuard Sand and Granular products can be applied beneath shingles, slate and mechanically-fastened tile to acceptable roof decks with slopes of 2"/12" or greater.

Application at Valleys and Ridges: In the valleys, the width of the WinterGuard must be 36 inches minimum, and on the ridges, 12 inches minimum. Cut WinterGuard to convenient premeasured lengths (4 to 6 feet recommended). Peel off the release film and drape the sheet into place, allowing the membrane to locate and adhere in the valley centerline or ridge peak first, working outward toward the edges. In valleys, start the application at the low point and work upwards. To assure waterproofing, overlap all sheets 6 inches at lap joints. Do not use WinterGuard as a permanent weathering surface (such as in an open valley).

MAINTENANCE

WinterGuard requires no maintenance when installed according to manufacturer's application instructions.

WARRANTY

WinterGuard is warranted against manufacturing defects and to remain watertight for the same period as the warranty duration carried by the roofing product applied above it – up to a maximum of 50 years. For specific warranty details and limitations, refer to the warranty itself.

FOR MORE INFORMATION

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