PRODUCT DATA SHEET

DECKGUARD® HT

Sheet Underlayment Membrane

MANUFACTURER

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PRODUCT DESCRIPTION

Deckguard® HT is a high heat premium membrane composed of a high strength slip resistant spider web backing laminated to a high-performance high heat asphalt compound with a film release for ease of application. The release liner is removed leaving a strong asphalt compound to bond to the roof deck.

FEATURES AND BENEFITS

Construction today utilizes more unique applications for energy efficiency by incorporating more insulation, longer lasting roof coverings and in general longer construction cycles. The ongoing chances contribute to roof top temperatures, color of roof and various types of pitches the roof has. All these make it difficult to know what the roof will experience. Use of the proper product that will perform in all these conditions is critical to the success of the roof design.

Deckguard® HT is designed to help in high temperature applications. The high temperature resistance allows the membrane to be exposed to heat of 260° F (127° C) or less. It has superior adhesion to the roof deck. The Deckguard HT is self-sealing and will seal around nails which will resists leakage caused by water backing up due to ice dams or wind driven rains. When applied according to specifications and recommendations it will keep the roof deck and supporting structure dry.

BASIC USES

Deckguard® HT is a waterproofing underlayment manufactured for use on sloped roof decks and is suitable under most traditional roof coverings such as shingles for both commercial and residential and metal roofs. On Copper, Cor-Ten®, or zinc metal roofing in high altitudes contact Polyguard for recommendations. Deckguard HT resists water penetration from water backup due to ice dams or wind driven rain. It also waterproofs potential leak areas such as protrusions, skylights, valleys and other flashing areas. The Deckguard HT should be used in conjunction with designs that will minimize ice dam formation. It is important to utilize insulation and ventilation to reduce the size of the ice dams in order to reduce the amount of condensation that can build up. This is more especially in the colder climate areas and mountainous regions. Cathedral ceilings must include ventilation between the rafters to allow for air flow to a ridge vent.

Many variables can influence the height of the ice dams and the coverage of membrane required. This includes the slope, climate, overhang, valleys, exposure, insulation and ventilation. Consult the Polyguard Representative with concerns or questions not listed.

PREPARATION

Deckguard® HT can be installed directly to a clean dry structural deck. Suitable substrates included plywood, wood composite, metal, concrete, wood plank or gypsum sheathing. All dust, loose nails, old roofing materials and dirt must be removed prior to application of the membrane. Decks must not have voids, unsupported or damaged areas. Wood plank substrate must be butted tight together. The membrane cannot span a crack larger than 1/16-inch.

If liquid adhesive is required never apply liquid adhesives to wet or frozen surfaces. If surface temperatures are 32° F (0° C) and rising, 650 LT Liquid Adhesive or California Sealant (both solvent-based) may be used to promote adhesion. If surface temperatures are 40° F (0° C) and rising, 650 WB Liquid Adhesive (water-based) may be used to promote adhesion. The underlayment should be kept warm until needed if cold temperatures exist. When substrate is ready, apply 650 WB Liquid Adhesive at a rate of 350-400 sq. ft. per gallon, 650 LT Liquid Adhesive or California Sealant at a rate of 250-300 sq. ft. per gallon, depending on porosity of the substrate and using a short nap roller or brush. Allow liquid adhesive to dry for one hour or until tack-free. Prime only the area which can be covered with underlayment in the same working day. Areas primed and not covered within 24 hours should be recoated. Do not apply liquid adhesive at heavier rates than recommended. Excessive material build-up will delay drying and underlayment application. Liquid Adhesive must be used on masonry, concrete or DensGlass® Gold. If wood composite and gypsum sheathing adhesion is marginal adhesive should be used to enhance adhesion to substrate.

UNDERLAYMENT INSTALLATION

On standing seam metal roofs the underlayment will be applied on insulation board. Underlayment should be applied with a 6-inch minimum end and a 3-inch side overlap. Cut underlayment into 10-15 foot lengths and reroll. Starting at the base or lower edge of the roof, apply underlayment with the long edge parallel to the edge of the roof. Unroll the underlayment by pulling the release sheet from under the underlayment. Roll the surface with a small hand type roller or hand pressure during application to eliminate minor wrinkles and air pockets. Most local buildings codes and the National Roofing Contractors Association recommend underlayment application from roof edge to 24-inch within the interior wall line of the building. Since snow loads vary by area, local conditions should be considered during specification. Apply underlayment to ridges or valleys, slit to proper width and with approximately half of the underlayment width applied on either side of the ridge or valley. Cut the underlayment into approximately 6-foot lengths for placing on irregular contoured surfaces for ease of application. Install roofing valleys from the low point to the high point, shingling the underlayment. Overlap all ridge and valley underlayment by 6-inch. In mountainous areas with considerable snow, it may be necessary to apply underlayment on the entire roof area. The consideration as

to whether this is done will depend upon how far melted water under the shingles would reach a given climatic location with a given roof pitch.
Repair holes, tears, fishmouths and any damage to membrane with a piece of DeckguardHT extending past damage a minimum of 6-inch in all directions.

Fasteners or screws must stay in but if removed they must be patched. The Deckguard® HT may not self-seal around these areas.

DELIVERY AND HANDLING
Materials should be delivered in a manufacturer's original, unopened packaging with labels attached. All materials must be handled in a manner to prevent damage. Any material damaged must be removed from the project area and replaced with new material. Products must be handled in accordance with manufacturer's guidelines. Material Safety Data Sheets must be reviewed for guidance on flammability and other dangers of any liquid adhesives to be used; instructions for safety should be fully followed.

LIMITATIONS
Roofing material can be applied promptly over the underlayment. The material cannot be guaranteed for UV stability if left exposed for over 60 days. Avoid folding the underlayment over the roof edge unless protected by flashing, gutters, or drip caps. If drip caps are used, do not install underlayment on top of drip cap. Underlayment can be folded over roof edge underneath drip cap.

The underlayment is a vapor barrier. Adequate ventilation must be provided to prevent condensation of moisture on roof deck after an application, especially for full roof underlayment coverage. Do not install directly under roof coverings especially sensitive to corrosion, such as zinc, without providing proper ventilation. No other use of these materials is to be made without prior approval of manufacturer as to service and method of application.

NOTE: UNDERLAYMENT MEMBRANE IS SLIPPERY WHEN WET. WORKMEN SHOULD USE SHOES WITH SUFFICIENT SOLE FRICTION TO AVOID SLIDING OR SLIPPING ON THE MATERIAL. AVOID WALKING ON THIS MATERIAL WHEN WET. USE GOOD ROOFING PRACTICES, ALWAYS WEAR FALL PROTECTION WHEN WORKING ON A ROOF DECK. DECKGUARD® HT IS NOT COMPATIBLE WITH EPDM OR TPO ROOFING SYSTEMS. DO NOT ALLOW TO COME IN CONTACT WITH FLEXIBLE PVC, POLYSULFIEDS OR HIGH CONCENTRATIONS OF RESINS SUCH AS PITCH.

SAFETY
SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at (214) 515-5000 with questions.

WARRANTY
We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES
Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact
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PROPERTY	TEST METHOD	TYPICAL VALUE
FILM COLOR		Blue/White
TOTAL UNDERLAYMENT THICKNESS		40 mils
SOFTENING POINT	ASTM D 36	260° F
ELONGATION - ULTIMATE FAILURE OF RUBBERIZED	ASTM D 412 Modified Die	> 184%
TENSILE STRENGTH	ASTM D 412 Modified Die	338 PSI
PUNCTURE RESISTANCE	ASTM E 154	> 22 lb_f
LOW TEMPERATURE PLIABILITY	ASTM D 146	No effect
PERMEANCE	ASTM E 96	0.01
NAIL SEALABILTY	ASTM D 1970	PASS
THERMAL STABILITY	ASTM D 1970	PASS
PEEL ADHESION	ASTM D 1970	> 15 lb / in width
LAP ADHESION	ASTM D 1970	> 10 lb / in width

PACKAGING	*PART NUMBER*	*UNIT SIZE*
DECKGUARD® HT	DGHT36	36" x 75'
Possible Accessories:		
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5-gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 – 1 gal pails/ctn
650 WB LIQUID ADHESIVE	PG.650.WB.5	5-gallon pail
CALIFORNIA SEALANT	CALSEAL5	5-gallon pail
DETAIL SEALANT PW™	DETAIL SEALANT PW –	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW – 3	3-gallon pail