

# POLYGUARD DECK GUARD™ HT SPECIFICATION

## PART 1 - GENERAL

### DESCRIPTION:

The work in this section includes requirements for self-adhering, rubberized asphalt roofing underlayment under shingles, tile, or standing seam metal. The extent of the underlayment is indicated on tech drawings.

### SUBMITTALS:

- Submit one square foot sample of underlayment for approval.
- Submit copies of manufacturer's product description, product usage, and product application for all materials proposed for use on the project.

### 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.

### JOB CONDITIONS:

Materials should only be applied under proper weather conditions. Underlayment is best applied at temperatures of 35°F and above. Adhesion of underlayment should be field tested before application. If adhesion is marginal, test again using liquid adhesive. Surfaces to receive the underlayment must be smooth, dry, and free of dust, dirt, or other foreign materials. Liquid adhesive is necessary in all instances where dust is present or where a test patch shows that adhesion is inadequate.

## PART 2 - PRODUCTS

### MATERIALS:

- A. Roofing underlayment underlayment system: *Deck Guard™ HT* by Polyguard Products, Box 755, Ennis, TX, 75120, Phone: 972.875.8421, Fax: 972.875.9425, website: [www.polyguardproducts.com](http://www.polyguardproducts.com).
- B. Physical properties of roofing underlayment system:

Property / Unit	Test Method	Typical Value
Film Color		White
Total Underlayment Thickness		40 mils
Softening Point	ASTM D-36	>260°F
Elongation - Ultimate Failure of Rubberized Asphalt	ASTM D 412 - Die C (Modified)	> 400% (minimum)
Tensile Strength	ASTM D 412 Die C (Modified)	550 psi (minimum)
Low Temperature Pliability	ASTM D 146	No effect
Permeance	ASTM E 96	0.01
Water Absorption	ASTM D 1970	< 0.1%
Peel Adhesion	ASTM D 1970	> 4 lb / in width
Lap Adhesion	ASTM D 1970	> 10 lb / in width

### **PART 3 EXECUTION:**

#### **IF PRIMING IS REQUIRED:**

Never apply liquid adhesives to wet or frozen surfaces. If temperature is under 55°F and over 32°F manufacturer's waterbase liquid adhesive may be used to promote adhesion. The underlayment should be kept warm until needed if cold temperatures exist. If temperature is greater than 55°F, liquid adhesive is optional. When substrate is ready, apply liquid adhesive at a rate recommended by manufacturer using short nap roller, brush, squeegee, or spray apparatus. 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 reprimed. Do not apply liquid adhesive at heavier rates than recommended. Excessive material build-up will delay drying and underlayment application.

#### **UNDERLAYMENT INSTALLATION:**

On standing seam metal roofs the underlayment will be applied on insulation board. Underlayment should be applied with a 6" minimum end and a 3" 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" 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' 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". 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.

#### **LIMITATIONS:**

Roofing material can be applied promptly over the underlayment. The material cannot be guaranteed for UV stability if left exposed for over 30 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. No other use of these materials is to be made without prior approval of manufacturer as to service and method of application.

#### **PRECAUTIONS:**

**UNDERLAYMENT MEMBRANE IS SLIPPERY. WORKMEN SHOULD USE SHOES WITH SUFFICIENT SOLE FRICTION TO AVOID SLIDING OR SLIPPING ON THE MATERIAL. AVOID WALKING ON THIS MATERIAL WHEN WET.**