

**Physical Properties:**

**Complies with ASTM D-6162** – Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements

**Complies with CGSB 37-GP-56M 9<sup>th</sup> draft, Type 2, Class G, Grade 2**

-Strain Energy	MD 14.2kN/m (81 lbf/in) XD 13.0kN/m (74 lbf/in)	Lap Joint Strength After 5 days at 23°C After 5 days at 50°C (H <sub>2</sub> O) After 5 days at 50°C (H <sub>2</sub> O) & 5 cycles of freeze thaw	806N (181 lbf) 908N (204 lbf) 921N (207 lbf)
-Tensile Strength	MD 19.0kN/m (108 lbf/in) XD 16.0kN/m (91 lbf/in)	-Granule Embedment	0.13g loss
-Ultimate Elongation	MD 152% XD 160%	-Dimensional Stability	MD 0% XD 0%
-Tear Strength	64 N (14.4 lbf)	-Accelerated Weathering. 1080 2h cycles	Pass
-Water Resistance -Water Absorption -Water Vapour Transmission	Pass water tightness 0.59 g 0.02 g/m <sup>2</sup> •24h	-Crack Bridging	>10 cycles at -20°C (-4°F)
-Dynamic Impact (Puncturing) -Static Puncturing	Pass Pass	-Low Temperature Flexibility at -30°C (-22°F) Initial 90days at 70°C	No sign of cracking No sign of cracking

**Packaging**

-Thickness	<b>HDgM4</b> 4.0 mm (160 mils)	-Thickness	<b>HDgT4</b> 4.0 mm (160 mils)
-Roll Length	10 m (32.9 ft.)	-Roll Length	8 m (26.3 ft.)
-Roll Width	1 m (39 3/8")	-Roll Width	1 m (39 3/8")
-Gross Coverage	10 m <sup>2</sup> (107.6 ft <sup>2</sup> )	-Gross Coverage	8 m <sup>2</sup> (86 ft <sup>2</sup> )
-Net Coverage	9.1 m <sup>2</sup> (98 ft <sup>2</sup> )	-Net Coverage	7.25 m <sup>2</sup> (78 ft <sup>2</sup> )
-Top Surface	Ceramic Granules	-Top Surface	Ceramic Granules

**Uses**

*modifiedPLUS*<sup>®</sup> **HD Heavy Duty Cap Sheet** is used as the top ply in a two-ply roofing system and as a flashing membrane for modified bitumen roofing, conventional built-up roofing and as a maintenance repair material. The product incorporates a high tensile composite reinforced mat, providing it with improved mechanical properties compared to traditional products.

- **HDgT4** has a thermofusible poly lower surface for torching to *modifiedPLUS*<sup>®</sup> substrates
- **HDgM4** has a sanded lower surface for mopping or cold adhering to substrate

## **modified PLUS® HDgT4, HDgM4 Heavy Duty Cap Sheet**

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### **Features**

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- Heavy duty composition provides greater physical properties covered by the ASTM D-6162 Standard
- Superior tensile strength and elongation compared to glass or polyester mat cap sheets
- Excellent puncture resistance and tear strength
- SBS polymer provides flow resistance at high temperatures and flexibility at low temperatures for lasting durability
- Factory applied surface granules to enhance ultra-violet resistance and surface durability
- Compatible with a variety of Henry's base sheet products, providing a variety of installation configurations

### **Limitations**

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Non-resistant to oils and solvents. Refer to manufacturer for specific chemical resistance.

### **Storage**

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Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 49°C (120°F).

### **Preparation**

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*modifiedPLUS® HD Heavy Duty Cap Sheet* is designed to be used over a suitable base sheet. Refer to *modifiedPLUS®* base sheet specification data and *modifiedPLUS®* General Specifications for details on acceptable decks, insulation substrates and base sheet application.

### **Application**

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Roll out *modifiedPLUS® HD Heavy Duty Cap Sheet* and allow to relax prior to application. Begin application of the cap sheet at the lowest edge or drain. Proceed up the slope from the lowest point. Position and unroll cap sheet to achieve correct overlap and alignment. Re-roll one end a minimum of 3 m (10') and adhere membrane to substrate. Complete application of remainder of sheet.

#### **Thermofused Application: HDgT4**

Heat lower surface of membrane evenly across width of roll. Sufficient heat should be applied to melt the lower surface and provide a flow of bitumen. At the same time unroll the roofing membrane into the melted bitumen. Care should be taken to ensure that heating is even across the width to avoid skips or voids and bitumen should flow out from lap to ensure a tight seal. Add matching granules to cover the excess bitumen flow at seams.

#### **Mopping Application: HDgM4**

Roofing asphalt shall be **SEBS 890-12** or CSA A123.4 M Type 2 or Type 3 for slopes up to 1:16 and Type 3 for slopes of greater than 1:16. Use **SEBS 890-12** or Type 3 for all flashing. Asphalt must be applied hot, so that its mopping temperature is not below 204°C (400°F) when measured at the mop cart, to facilitate correct interply thickness, adhesion and uniformity. The roofing membrane must be unrolled into the hot asphalt immediately.

Mopping should not be more than 1.2 m (4') ahead of unrolling. Unroll into asphalt mopped at the rate of 1 to 1.5 kg/m<sup>2</sup> (20-30 lbs./100 ft<sup>2</sup>), lapping 75 mm (3") on sides and 150 mm (6") on ends. The presence of a continuous, firmly bonded film of asphalt should be observed flowing out of the seams. Mopping at ambient temperatures below 4°C (40°F) requires special care and treatment. Refer to *modifiedPLUS®* General Specifications.

#### **Cold Adhered Application: HDgM4**

Apply **MBA Gold®** Elastomeric Modified Bitumen Adhesive by spray or notched squeegee to laps as well as the field of the sheet at the rate of approximately 0.6 l/m<sup>2</sup> (1.5 U.S. gal./100 ft<sup>2</sup>). A notched squeegee with notches 6mm (1/4") long, 3mm (1/8") deep, spaced on 25mm (1") is ideal for smooth surfaces. For irregular surfaces the notches should be 6mm (1/4") deep. Best results occur above 5°C (40°F). The adhesive thickens at colder temperatures and proper coverage becomes difficult.

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**REV:** 10/28/13

Roll out *modified*PLUS® **HDgM4 Heavy Duty Cap Sheet** and allow to relax prior to application. Apply adhesive to substrate and allow 3 to 5 minutes open time prior to rolling in membrane. Installation without allowing open time could result in prolonged softening of the membrane or blisters. For flashings, apply **880-11 Flashing Adhesive** by brush to substrate and back of sheet, allow approximately 10 minutes open time so that the adhesive becomes tacky. Set flashing in place and apply firm pressure to ensure total and firm contact with substrate.

## **Warranty**

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**Henry Canada**, warrants to the owner, that the *modified*PLUS® modified bitumen membrane, when installed by a participating contractor subject to the conditions and limitations contained within the warranty, will remain watertight for a period as outlined. All leaks or roof problems, on warranted roofs, must be reported to the manufacturer in writing within a period of 30 days.