

Ultra White NP180 Cap Sheets NP180MUW, NP180MUF, NP180TUF

Physical Properties: Complies with CGSB 37-GP-56M, Type 1 Class A Grade 2.

-Breaking Strength	MD 1206N (272 lbf) XD 808N (182 lbf)	-Dynamic Impact (Puncturing)	Passed
-Ultimate Elongation	MD 41% XD 46%	-Static Puncturing	Passed
-Load Strain	MD 49446 XD 37168	-Lap Joint Strength	
-Water Resistance		After 5 days at 23°C	858N (193 lbf)
Water Absorption	0.83g	After 5 days at 50°C (H ₂ O)	804N (181 lbf)
Dimensional Change	MD 0.61% XD 0.17%	After 5 days at 50°C (H ₂ O) & 5 cycles of freeze thaw	793N (181 lbf)
-Low Temperature Flexibility at -30°C (-22°F)	No sign of cracking Pass water tightness	-Granule Embedment	0.13g
-Water Vapour Transmission	0.02 g/m ² .24 hr.	-Accelerated Weathering	Pass
-Solar Reflectance Index	0.45 (ASTM C-1549)	1080 2h cycles	
-Solar Emittance	0.85 (ASTM C1371)	-Crack Bridging	> 10 cycles at Minus 20°C (Minus 4°F)
-Solar Reflectance Index	50 (ASTM E1980)		

Packaging

	NP180MUW (Mop, ultra-white) NP180MUF (Mop, ultra-white) fire-rated		NP180TUF (Torch, ultra-white) fire-rated
-Thickness	3.5 mm (140 mils)	-Thickness	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 Length	1 m (39 3/8")
-Gross Coverage	10 m ² (107.6 ft ²)	-Roll Width	8 m ² (86 ft ²)
-Net Coverage	9.1 m ² (98 ft ²)	-Gross Coverage	7.25 m ² (78 ft ²)
-Top Surface	Brilliant White Ceramic Granules	-Net Coverage	Brilliant White Ceramic Granules
		-Top Surface	

Uses

modifiedPLUS® **NP180 Ultra White Cap Sheets** are 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.

- Used where a highly reflective, Ultra White Surface is required
- **NP180MUW** has a sanded lower surface for mopping or cold adhering to substrate.
- **NP180MUF** has a sanded lower surface for mopping or cold adhering to substrate.
- **NP180TUF** has a thermofusible poly lower surface for torching to substrate and is Classified by Underwriters Laboratories Inc. for Class A roof covering, fire resistance.

Features

- Designed for application in new construction, re-roofing and retrofit roofing
- Factory applied brilliant white surface granules to enhance ultra-violet resistance, reflect heat and provide surface durability
- Proprietary 180g/m² reinforcement provides increased flexibility
- SBS polymer provides flow resistance at high temperatures and flexibility at low temperatures for lasting durability
- Excellent tear resistance
- Can contribute to **LEED credits**

Limitations

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

Storage

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

modifiedPLUS[®] **NP180 Ultra White Cap Sheets** are designed as a cap sheet 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

Roll out *modifiedPLUS*[®] **NP180 Ultra White 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.

Mopping Application: Use NP180MUW or NP180MUF Ultra White Cap Sheet

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/m² (20-30 lbs./100 ft²), 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: Use NP180MUW or NP180MUF Ultra White Cap Sheet

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/m² (1.5 U.S. gal./100 ft²). 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.

Roll out *modifiedPLUS*[®] **NP180M Ultra White 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.

Thermofused Application: Use NP180TUF Ultra White Cap Sheet

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.

Slopes 1:12 (1" in 12") or Greater: In addition to the above, on slopes of 1:12 (1" in 12") or greater, apply membrane parallel to direction of slope and blind nail or mechanically fasten membrane at end or head lap on 150 mm (6") centres.

LEED Credit

modifiedPLUS[®] **Ultra White** cap sheets can comply with LEED Credit SS7.2 by coating 25% of the roof surface with highly reflective **HE280DC Elastomeric White Coating** (SRI of 112).

Warranty

Henry Canada, warrants to the owner, that the *modifiedPLUS*[®] 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. <>