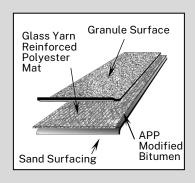


# **Technical Information Sheet**



### **APP 180 FR Cool**

Item Description	Item Number
1 Roll – UltraWhite (1 Square)	W70PNUW180FC
1 Roll – White (1 Square)	W70PWS180FCN
1 Roll – Black (1 Square)	W70PBT180FCN

## **Description**

APP 180 FR Cool is a granule-surfaced APP modified bitumen roofing membrane designed to be installed with Elevate All-Purpose MB Cold Adhesive. It consists of select asphalt, modified with atactic polypropylene, and strengthened with a fiber glass reinforced polyester non-woven mat [190 g/m² (3.9 lb/100 ft²)] made with 100 % recycled PET fibers. The combination results in a flexible and durable material that exceeds the performance requirements of ASTM D 6222 Type I, Grade G. APP 180 FR Cool is a membrane that is strong and stable, and resistant to natural forces and other factors on the rooftop. The addition of fire-retardant materials increases the fire resistance of the membrane. APP 180 FR Cool is ideal for both new construction and re-roofing applications as a cap sheet or as a flashing sheet in single or multi-ply APP applications.

**NOTE:** Meets or exceeds performance requirements of ASTM D 6222, Type I, Grade G.

Product Packaging				
Property	Value	Property	Value	
Roll Width	3 ft 3 in (1 m)	Pallet Size	48 x 39 in (1.2 x 1 m)	
Roll Length	32 ft 10 in (10 m)	Rolls Per Pallet	20	
Net Coverage	98 ft <sup>2</sup> (9.1 m <sup>2</sup> )	Weight per Pallet	2,220 lb (1,007 kg)	
Roll Weight	111 lb (50 kg)			

# **Method of Application**

- 1. APP 180 FR Cool must be fully adhered with Elevate Multi-Purpose MB Cold Adhesive.
- 2. Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the application of APP 180 FR Cool.

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# **Acceptable Immediate Substrates for Cold Adhesive Application**

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved Elevate base sheet.
- Existing Smooth Surface BUR or APP Modified Bitumen (must be clean, smooth, and primed with ASTM D-41 primer).
- DensDeck® Prime, SECUROCK® Gypsum Fiber.
- ISO 95+™ GL Insulation, ISOGARD™ HD Composite or Cover Board, RESISTA™ Insulation.

**NOTE:** Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the type of deck and insulation in use.

## **Storage**

- All material should be stored out of the weather in a clean, dry area in its original unopened packaging at a minimum of 50 °F (10 °C) and a maximum of 100 °F (38 °C) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack APP 180 FR Cool membrane more than two (2) pallets high.
- If the material must be stored temporarily on the roof before application, it must be elevated from the roof surface on a pallet, stored on end, and covered from the weather with a light-colored opaque tarp in a neat, safe manner that does not exceed the allowable load limit of the storage area.

#### **Precautions**

- For safety information, refer to the Safety Data Sheet (SDS) for APP Membranes and Flashing.
- Take care when transporting and handling Elevate Modified Bitumen rolls to avoid punctures and other types of physical damage.
- Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from all Elevate Modified Bitumen membranes.
- Refer to Safety Data Sheets (SDS) for additional safety information.

#### **LEED® Information**

Post-Consumer Recycled Content: 6 % Post Industrial Recycled Content: 0 %

Manufacturing Location: Beech Grove, IN







NOTE: LEED® is a registered trademark of the U.S. Green Building Council

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Typical Properties			
Properties	Test Method	Performance Minimum	Typical Performance
Product Thickness	D 5147	160 mil (4 mm)	165 mil (4.2 mm)
Net Mass	D 146	85 lb/100 ft² (4,150 g/m²)	105 lb/100 ft² (5,127 g/m²)
Bottom Side Coating	D 5147	30 mil (0.76 mm)	43 mil (1.10 mm)
Peak Load at 73 °F (23 °C)	D 5147	50 lbf/in, MD (8.8 kN/m, MD) 50 lbf/in, XMD (8.8 kN/m, XMD)	55 lbf/in, MD (9.6 kN/m, MD) 55 lbf/in, XMD (9.6 kN/m, XMD)
Elongation at Peak Load at 73 °F (23 °C)	D 5147	23 %, MD 23 %, XMD	30 %, MD 30 %, XMD
Peak Load at 0 °F (-18 °C)	D 5147	60 lbf/in, MD (10.5 kN/m, MD) 60 lbf/in, XMD (10.5 kN/m, XMD)	65 lbf/in, MD (11.4 kN/m, MD) 65 lbf/in, XMD (11.4 kN/m, XMD)
Elongation at Peak Load at 0 °F (-18 °C)	D 5147	10 %, MD 10 %, XMD	15 %, MD 15 %, XMD
Ultimate Elongation at 5 % of Peak Load 73 °F (23 °C)	D 5147	30 %, MD 30 %, XMD	40 %, MD 40 %, XMD
Tear Strength at 73 °F (23 °C)	D 5147, D 4073	70 lbf, MD (311 N, MD) 70 lbf, XMD (311 N, XMD)	75 lbf, MD (334 N, MD) 75 lbf, XMD (334 N, XMD)
Low Temperature Flexibility	D 5147	32 °F (0 °C)	32 °F (0 °C)
Dimensional Stability	D 5147, D 1204	1 % Change, MD 1 % Change, XMD	0.2 % Change, MD 0.2 % Change, XMD
Compound Stability	D 5147	230 °F (110 °C)	270 °F (132 °C)
Granule Embedment, max loss	D 4977	2 g	0.5 g
Water Absorption	D 5147, D 95	3.2 %	0 %
Moisture Content	D 5147, D 95	1 %	0 %
Low Temperature Unrolling	D 5636	41 °F (5 °C)	0 °F (-18 °C)

Typical Properties		
Cool Roof Rating Council (CRRC)	UltraWhite Sheet: Initial / CRRC Rapid Ratings**	
Solar Reflectance	0.72 / 0.63	
Thermal Emittance	0.92 / 0.91	
Rated Product ID	0034	
Licensed Manufacturer ID	0608	
Classification	Production Line	
Solar Reflectance Index (SRI)*	89 / 77	
*SRI calculated using the ORNL (DOE) calculator, ASTM E 1980-01 **CRRC Rapid Ratings utilize the laboratory-aging practice in ASTM D7897 to simulate 3-year aged values.		



NOTE: The initial SRI for standard white membrane is 33. The SRI for black membrane is N/A

Please contact Holcim Technical Services at 800-428-4511 for further information.

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