

APPEX® 4.5M FR

Premium, Fire Retardant, Polyester-Reinforced, APP Mineral-Surfaced Cap or Flashing Sheet

Meets the requirements of ASTM D 6222, Type I, Grade G

Features and Components

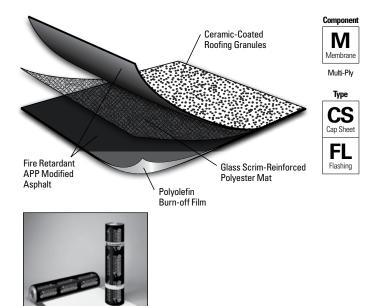
APPeX 4.5M FR is used as a cap or flashing sheet in APP multi-ply roofing systems.

Ceramic-Coated Roofing Granules: Specifically engineered for optimal embedment in the APP-blended sheet. The ceramic coating promotes excellent long-term adhesion.

Premium APP (Atactic Polypropylene) Polymer, Asphalt and Fire-Retardant Blend: Provides an extremely durable sheet with excellent weathering characteristics, flexibility and dimensional stability for ease of handling and guick installations.

Polyester Reinforcement Mat: Provides bidirectional glass-scrim reinforcement and offers robust tear strength and puncture resistance, allowing for high wind performance and excellent hail rating. The sheet also exhibits strong dimensional stability and enhanced elongation.

Polyolefin Burn-Off Film: Promotes ease of heat welding.



Colors: White and Black are standard. Aditional colors are available, please contact your sales representitive.

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

⊢	BUR		APP		SBS			
Multi-	HA	CA	CA	HW	HA	CA	HW	SA
Ξ	Compatible with the selected Multi-Ply systems above							

Do not use in Single Ply systems Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened FA = Fully Adhered BA = Ballasted

Energy and the Environment

Test	Initial	3-Year Aged		
Reflectivity* (ASTM C 1549)	0.26	0.27		
Emissivity* (ASTM C 1371)	0.87	0.84		
Solor Refectance Index* (SRI) - E 1980	25	25		
Pre-consumer Recycled Content	0'	0%		
Post-consumer Recycled Content	consumer Recycled Content 0%			

Peak Advantage® Guarantee Information

Systems	Guarantee Term		
Dependent on system*	Up to 20 years		

^{*}Contact JM Technical Services for specific system requirements or guarantee terms.

Codes and Approvals







 UL Class A ratings may be obtained in numerous constructions, both new and re-roof at slopes up to 1" per foot (83 mm/m).

Refer to the Safe Use Instructions and product label prior to using this product. The Safe Use Instructions are available by calling (800) 922-5922 or on the Web at www.jm.com/roofing.

Product Application



Refer to JM APP modified bitumen specifications and detail drawings for application and slope information.

Packaging and Dimensions

Roll Width	39 ¾" (1 m)
Roll Length	32' 10" (10.01 m)
Roll Coverage*	95.8 ft² (8.9 m²)
Roll Weight	112 lb (50.8 kg)
Rolls per Pallet	20
Pallets per Truck**	22

^{*}Assumes a 4" side lap.

^{**} Assumes a 48' flathed truck



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Tested Physical Properties

		ASTM	Standard for ASTM D 6222,	APPeX 4.5M FR		
Physical Properties			Test Method	Type I, Grade G	MD*	XMD**
	Tear Resistance @ 73.4° F	D 4073 / 5147	≥ 70 lbf	146 lbf	97 lbf	
Strength	Peak Load at 0°F (-18°C)	D 5147	≥ 60 lbf/in-width	133 lbf/in-width	107 lbf/in-width	
	Peak Load at 73.4°F (23°C)	Unconditioned	D 5147	≥ 50 lbf/in-width	102 lbf/in-width	69 lbf/in-width
	Feak Load at 73.4 (23 C)	90-Day Heat Conditioned	D 5147 / 5869	≥ 50 lbf/in-width	102 lbf/in-width	67 lbf/in-width
	Low Temp. Flexibility	Unconditioned	D 5147	Pass @ 32° F "none of the	Pass	
	@ 180° F Mandrel (Pass-Fail)	90-Day Heat Conditioned	D 5147 / 5869	specimens show cracking"	Pass	
	Low Temperature Unrolling (Pass-Fail) Unroll in 4-6s; Visual Inspection in "unrolled" position		D 5636	Pass @ 41° F "none of the specimens show cracking"	Pass	
	Compound Stability - 2 hr 15 min @	D 5147	Pass "no failures showing signs of flowing, dripping, or drop formation"	Pass		
	Granule Loss	D 4977/5147	2 g (0.07 oz)	0.9 g (0.03 oz)		
Longevity	Thickness	D 5147	≥ 160 mils	163 mils		
	Bottom Coating Thickness	D 5147	≥ 30 mils	44 mils		
	Water Absorption - water by distilla	D 5147 / 95	≤ 3.2 %	0.6%		
	Moisture Content - water by distilla	D 5147 / 95	≤ 1 %	0.2%		
	Ultimate Elongation at 73.4°F (-18°C	D 6222	≥ 30 %	51%	59%	
	Elongation at Peak Load @ 0° F	D 5147	≥ 10 %	12%	10%	
	Elongation at Peak Load @ 74.4° F	Unconditioned	D 5147	≥ 23 %	49%	56%
	Elongation at 1 dak Edua @ 7 l. 1	90-Day Heat Conditioned	D 5147 / 5869	≥ 23 %	41%	32%
Installation	Dimensional Stability - 24 hr @ 176°	D 5147 / 1204	≤ 1 %	0.20%	0.10%	
Instal	Net Mass per Unit Area	D 146	≥ 85 lb/100 ft²	94 lb/100 ft ²		

^{*}MD = Machine Direction

Note: All data represents tested values.

^{**}XMD = Cross-Machine Direction