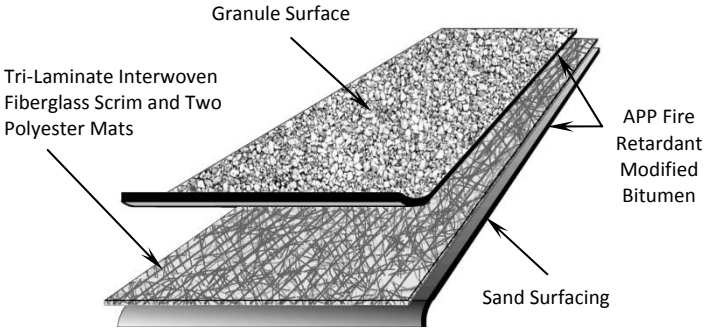
TECHNICAL INFORMATION SHEET

APP Premium FR

TIS #413

ITEM NUMBERS:

W70PUW180FC (UltraWhite™)
W70PWS180FC (White)
W70PBT180FC (Black)



Description:

APP Premium FR is a granule-surfaced APP modified bitumen membrane. It consists of select asphalt, modified with atactic polypropylene, and reinforced with a tri-laminate interwoven mat, which uses a high tensile fiberglass scrim interwoven between two non-woven polyester mats. Firestone's interwoven mat technology incorporates needle-punching which mechanically binds the three layers together, eliminating the risk of mat delamination. This superior construction provides increased dimensional stability, excellent tensile strength and puncture resistance and Flexibility for ease of installation.

APP Premium FR membranes are ideal for both new construction and re-roofing applications as a cap sheet in multi-ply applications. Low slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone APP Premium FR membrane application.

Method of Application:

1. APP Premium FR membranes shall be fully adhered with Firestone Multi-Purpose MB Cold Adhesive or fully heat welded. Please see the APP Design and Application Guide at www.firestonebpco.com for detailed information regarding the application of APP Premium FR.

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.
- If 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.
- Stack Firestone APP Premium FR material squarely in the original unopened packaging not more than two (2) pallets high.

Precautions:

- Take care when transporting and handling Firestone 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 Firestone Modified Bitumen membranes.
- Consult your Roof System Advisor at 800-428-4511 for specific recommendations.
- Refer to Material Safety Data Sheet for APP Membranes and Flashing.

Compliance:

Post Consumer Recycled Content:	6%
Pre Consumer Recycled Content:	0%
Manufacturing Location:	Beech Grove, IN

Note:
Dade County Approval of UltraWhite products is pending

Packaging:	
Roll Width:	3.3 ft (1m)
Roll Length	32' 10"(10 m)
Net Coverage :	98 ft^2 (9 m^2)
Roll Weight :	114 lb (52 kg)
Pallet Size :	48" x 39" (1.2 m x 1m)
Rolls per Pallet:	20
Weight per Pallet	2,340lb (1063 kg)

TECHNICAL INFORMATION SHEET

Firestone BUILDING PRODUCTS

APP Premium FR

ASTM D 6223 Type II, Grade G

Physical Properties Tested in accordance with ASTM D 5147	*ASTM Standard Required Value*	*Units*	*Firestone Value*	*Metric Units*	*Firestone Value*
Product Thickness	160	mil	167	mm	4.2
Net Mass	90	lb/100ft^2	104	g/m^2	5,079
Bottom Side Coating	40	mil	48	mm	1.2
Peak Load @ 0 °F (-18 °C)	200	lbf/inch, MD	210	kN/m	37
	200	lbf/inch, CD	204	kN/m	36
Elongation @ Peak Load @ 0 °F	3	% MD	4	%	4
(18 °C)	3	% CD	4	%	4
Peak Load @73 °f (-25 °C)	100	lbf/inch, MD	110	kN/m	19
	100	lbf/inch, CD	105	kN/m	18
Elongation @ Peak Load @73 °F	3	% MD	5	%	5
(25 °C)	3	% CD	5	%	5
Tear Strength @ 73 °F (25 °C)	180	lbf, MD	225	N	1000
	180	lbf, CD	200	N	890
Dimensional Stability	1	% Change MD	-0.02	%	-0.02
	1	% Change CD	0.01	%	0.01
Low Temperature Flexibility	32	°F	14	°C	-10
CompoundStability	230	°F	270	°C	132

Acceptable Substrates:	**Notes:**
Structural Concrete (New and Existing)	Please consult the APP Design and Application Guide and Quick Specs on line at www.firestonebpco.com to review specific information regarding fastener types appropriate for the type of deck and insulation in use.
Gypsum	Mechanical attachment only
Lightweight Concrete	Requires a mechanically attached base sheet
Plywood and OSB	Requires a mechanically attached base sheet or BaseGard SA
Firestone Insulation:	
ISO 95+™GL	Requires a coverboard when applied in hot asphalt
ISOGARD™ HD	Cannot be installed in hot asphalt
RESISTA™	Cannot be installed in hot asphalt
DensDeck	Cannot be encapsulated in hot asphalt

Reflectivity:	*Initial*	*Weathered*	*#*
Solar Reflectance	0.73	Pending	
Thermal Emittance	0.90	Pending	
Rated Product ID			0028
Licensed Manufacturer ID			0608
Classification	Production Line		

CRRC COOL ROOF RATING COUNCIL CHARTER MEMBER

Solar Reflectance Index (SRI) = 87
SRI calculated using the ORNL (DOE) calculator, ASTM E 1980-01

Please Contact your Firestone Roof System Advisor at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.