

TECHNICAL INFORMATION SHEET

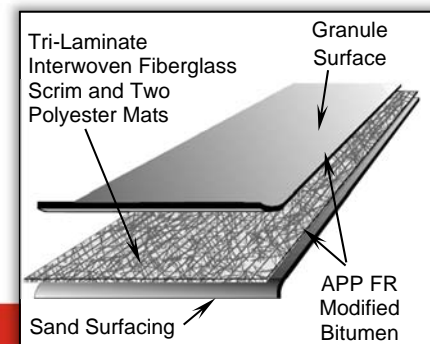
APP Premium FR

Item Description

- 1 Roll – UltraWhite™ (1 Square)
- 1 Roll – White (1 Square)
- 1 Roll – Black (1 Square)

Item Number

- W70TUWS183F
- W70TWS183F
- W70TBS183F



Meets or exceeds performance requirements of ASTM D 6223, Type II, Grade G

Product Information

Description:

Firestone APP Premium FR is a granule-surface APP modified bitumen membrane designed to be heat welded or installed with Firestone Multi-Purpose MB Cold Adhesive. 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. The combination results in a flexible and durable material that exceeds the performance requirements of ASTM D 6223 Type II, Grade G. APP Premium FR is a membrane that is strong and stable, and resistant to natural forces and other factors on the roof-top. It 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.

Product Packaging

Roll Width:	3' 3" (1 m)	Pallet Size:	48" x 39" (1.2 m x 1 m)
Roll Length:	33' 6" (10.2 m)	Rolls Per Pallet:	20
Net Coverage:	98 ft ² (9.1 m ²)	Weight per Pallet:	2,420 lb (916 kg)
Roll Weight:	110 lb (49.9 kg)		

Method of Application:

- APP Premium FR may be fully adhered with Firestone Multi-Purpose MB Cold Adhesive or fully heat welded to an acceptable substrate.
- Please see the APP Design and Application Guide at www.firestonebpc.com for detailed information regarding the application of APP Premium FR.

Acceptable Immediate Substrates for Cold Adhesive Application:

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer)
- Approved Firestone 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, STRUCTODEK® HD
- Firestone ISO 95+™ GL Insulation, ISOGARD™ HD Composite or Cover Board, RESISTA™ Insulation

Acceptable Immediate Substrates for Heat-Welded Application:

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer)
- Approved Firestone 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, STRUCTODEK HD

NOTE: Please consult the APP Design Guide and QuickSpecs online at www.firestonebpc.com to review specific information regarding the type of deck and insulation in use.

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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 Firestone APP Premium FR 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 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.

LEED® Information:

Post Consumer Recycled Content: 6%

Pre-Consumer Recycled Content: 0%

Manufacturing Location: Beech Grove, IN

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



Typical Properties (Meets ASTM D 6223, Type II, Grade G)

Property	ASTM Standard	ASTM Standard Required	Typical Performance
Product Thickness:	D 5147	160 mil (4.0 mm)	180 mil (4.6 mm)
Net Mass:	D 146	90 lb/100 ft ² (4,394 g/m ²)	105 lb/100 ft ² (5,127 g/m ²)
Bottom Side Coating:	D 5147	40 mil (1.0 mm)	51 mil (1.3 mm)
Peak Load at 73 °F (23 °C):	D 5147	100 lbf/in, MD (17.5 kN/m, MD)	110 lbf/in, MD (19.3 kN/m, MD)
		100 lbf/in, XMD (17.5 kN/m, XMD)	110 lbf/in, XMD (19.3 kN/m, XMD)
Elongation at Peak Load at 73 °F (23 °C):	D 5147	3%, MD	5%, MD
		3%, XMD	5%, XMD
Peak Load at 0 °F (-18 °C):	D 5147	200 lbf/in, MD (35 kN/m, MD)	210 lbf/in, MD (36.8 kN/m, MD)
		200 lbf/in, XMD (35 kN/m, XMD)	210 lbf/in, XMD (36.8 kN/m, XMD)
Elongation at Peak Load at 0 °F (-18 °C):	D 5147	3%, MD	5%, MD
		3%, XMD	5%, XMD
Tear Strength at 73 °F (23 °C):	D 5147, D 4073	180 lbf, MD (800 N, MD)	190 lbf, MD (845 N, MD)
		180 lbf, XMD (800 N, XMD)	190 lbf, XMD (845 N, XMD)
Low Temperature Flexibility:	D 5147	32 °F (0 °C)	32 °F (0 °C)
Dimensional Stability:	D 5147, D 1204	1% Change, MD	0.2% Change, MD
		1% Change, XMD	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)

APP Premium FR

Radiative Properties (UltraWhite Sheet Only)

Cool Roof Rating Council (CRRC):	UltraWhite Sheet: Initial / 3 yr Simulated**
Solar Reflectance	0.71 / 0.71**
Thermal Emittance	0.87 / 0.87**
Rated Product ID	0034
Licensed Manufacturer ID	0608
Classification	Production Line
Solar Reflectance Index (SRI)*	87
* SRI calculated using the ORNL (DOE) calculator, ASTM E 1980-01	
**CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values.	

NOTE: The SRI for standard white membrane is 34. The SRI for black membrane is N/A.



Please contact Quality Building Services Technical Department 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 or other technical documents, subject to normal roof manufacturing tolerances. 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.