TECHNICAL INFORMATION SHEET

SBS Cap

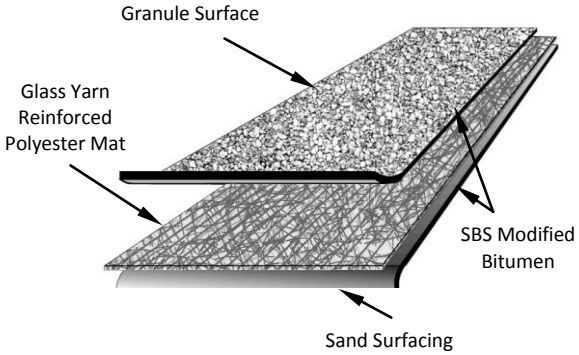
TIS #506

ITEM NUMBER: W71PUWS1600 (UltraWhite™)
W71PWS1600 (White)
W71PBS1600 (Black)

Description:

Firestone SBS Cap is a Styrene-Butadiene-Styrene modified bitumen membrane that is reinforced with a 190 g/m^2 (3.89 lb/100 ft^2) non-woven polyester mat enhanced with continuous glass fiber strands in the machine direction. The combination results in a flexible, durable membrane. The addition of SBS rubber optimizes the natural waterproofing characteristics of asphalt and increases system performance. This proprietary compound provides resistance to thermal and physical forces over a wide range of temperatures.

SBS Cap is ideal for both new construction and reroofing applications. Low slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone SBS Cap application. Firestone SBS Cap with UltraWhite granules has a highly reflective surface designed to meet national, state and local energy code requirements.



Method of Application:

1. SBS Cap shall be installed with conventional hot asphalt, LiquiGard™, or Firestone Multi-Purpose MB Cold Adhesive.
2. Please see the SBS Application Guide at www.firestonebpco.com for detailed information regarding the application of SBS Cap.

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 SBS Cap 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 Technical Coordinator at 800-428-4511 for specific recommendations.
- Refer to Material Safety Data Sheet for SBS Membranes and Flashing.

Compliance:

Post Consumer Recycled Content:	4%
Pre Consumer Recycled Content:	0%
Manufacturing Location:	Beech Grove, IN

FM APPROVED

CLASSIFIED cULus

CCMC 13263-L

MIAMI-DADE COUNTY APPROVED

Note:
Dade County Approval of UltraWhite products is pending

Packaging:	
Roll Width:	3.3 ft (1m)
Roll Length	33.5 ft (10.2 m)
Net Coverage :	100 ft^2 (9.3 m^2)
Roll Weight :	97 lb (44.1 kg)
Pallet Size :	48” x 39” (1.2 m x 1m)
Rolls per Pallet:	20
Weight per Pallet	2,000 lb (907 kg)

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SBS Cap

ASTM D 6164 Type I, Grade G

Physical Properties Tested in accordance with ASTM D 5147	ASTM Standard Requirement	Units	Firestone Value	Metric Units	Firestone Value
Product Thickness	130	mil	155	*mm*	4
Net Mass	75	lb/100ft^2	91	*g/m^2*	4,443
Bottom Side Coating	n/a	mil	40	mm	1.0
Peak Load @ 0 °F (-18 °C)	70	lbf/inch, MD	105	kN/m	18
		lbf/inch, CD	90	kN/m	16
Elongation @ Peak Load @ 0 °F	20	% MD	57	%	57
(18 °C)	20	% CD	62	%	62
Peak Load @73 °f (-25 °C)	50	lbf/inch, MD	65	kN/m	12
	50	lbf/inch, CD	55	kN/m	9
Elongation @ Peak Load @73 °F	35	% MD	65	%	65
(25 °C)	35	% CD	74	%	74
Ultimate Elongation @5% of	38	% MD	102	%	102
Peak load 73 °F (25 °C)	38	% CD	110	%	110
Tear Strength @ 73 °F (25 °C)	55	lbf/inch, MD	109	kN/m	485
Tear Strength @ 73 °F (25 °C)	55	lbf/inch, MD	95	kN/m	409
Dimensional Stability	1	% Change MD	-0.1	%	-0.1
	1	% Change CD	0.2	%	0.2
Low Temperature Flexibility	0	°F	-25	°C	-32
CompoundStability	215	°F	250	°C	121
Granule Loss	2	grams	0.7	grams	0.7

Acceptable Substrates:	**Notes:**
Structural Concrete (New and Existing) *Gypsum* *Lightweight Concrete* *Plywood and OSB*	Please consult the SBS Design 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.
Firestone Insulation *Note:*	Please consult the SBS Design Guide and Quick Specs on line at www.firestonebpco.com to review specific information regarding the appropriate fastener or adhesive for the deck and type of insulation in use.
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: UltraWhite only	*Initial*	*Weathered*	*#*
Solar Reflectance	0.73	pending	
Thermal Emittance	0.92	pending	
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

Please Contact your Firestone Technical Coordinator at 1-800-428-4511 for further information.

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Firestone BUILDING PRODUCTS

SBS Cap Canadian Standards

CGSB-37-GP-56M Type I, Class A, Grade 1

Physical Properties Tested in accordance with 37-GP-56M	*CGSB Standard Requirement*	*Units*	*Firestone Value*
Breaking Strength	≥ 294	N	686 491
Ultimate Elongation	≥ 4	% MD % CD	64 76
Load Strain Product	≥ 2,940	--- ---	43,868 37,340
Water Resistance			
Mass Change	≤ 1	grams	-0.24
Dimensional Change	≤ 1	% MD % CD	+0.27 +0.65
Low Temperature Flexibility *@ -30 °C*	4 of 5 samples Pass Low Temperature Flex	----	All 5 samples passed Low Temp Flex
Water Vapor Transmission	≤1	grams/m2, 24 hrs.	1
Dynamic Impact			
Steel Underlay Plate			
@ 23 °C	3 samples pass	No perforation	Pass
@ -10 °C		pass watertightness	Pass
Rubber Underlay Plate			
@ 23 °C	3 samples pass	No perforation	Pass
@ -10 °C		pass watertightness	Pass
Static Puncture	No perforation-pass Watertightness	23 °C, 245 N, 1 hr	Pass
Lap Joint Strength			
Initial			
MD	≥ 294	N	613
CD			500
Watertightness	no leakage		passed
5 days in 50 °C water			
MD	≥ 294	N	608
CD			530
Watertightness	no leakage		passed
5 freeze-thaw cycles			
MD	≥ 294	N	698
CD			579
Watertightness	no leakage		passed
Granule Embedment	≤ 0.5	grams	0.14
Crack Bridging Capability	No cracking, splitting or loss of adhesion	---	passed