

BITEC® SFM-3.5H-FR is a premium quality SBS modified bitumen cap ply manufactured using a time-proven, proprietary blend of select fire retardants, asphalts and polymers with minimal use of fillers and additives. SFM-3.5H-FR is designed for hot asphalt application over built-up ply felt systems, as well as hot asphalt or cold adhesive application over a variety of BITEC SBS modified bitumen base plies in commercial roof membrane configurations.

FEATURES & BENEFITS

BITEC SFM-3.5H-FR also provides the following features and benefits:

- Meets or exceeds the criteria of ASTM D6163 (Type I, Grade G) Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements
- Granule surface for UV and foot traffic protection
- Reinforced with a notably strong fiberglass mat for superior dimensional stability and tensile strength
- Contains additional fire retardant additives

PACKAGING

Roll package: Paper wrap

Rolls per pallet: 20

Pallets per truckload (typical): 18

Colors: Ultra White (CRRC compliant), black, white, brown, buff, gray, jet black, brown blend, gray blend, tan blend, black blend, terra cotta, and slate blend.

APPROVALS

UL Classified R13231 Membrane for Roofing Systems as to an External Fire Exposure Only 49S8

NEMO Certified D8455814J

STANDARD SPECIFICATION(S):

ASTM D6163, TYPE I, GRADE G

FLORIDA PRODUCT APPROVAL

FM Approved

APPLICATION



HOT ASPHALT



COLD ADHESIVE

SFM-3.5H-FR can be hot mopped in Type III or IV asphalt or applied using a notched squeegee in BITEC PMA-186 Adhesive. Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

Store the SFM-3.5H-FR rolls in their original containers with labels unbroken in a clean, dry, protected location and within the temperature range required to provide for proper application. Keep rolls stored upright on their original pallet. Never lay rolls down or stack materials on top of the rolls. Avoid dropped rolls on the edges to avoid potential deformation that can affect their ability to roll out evenly. Handle and place roofing materials and equipment in a manner to avoid permanent deflection of the deck.

PRECAUTIONS

BITEC SBS membranes are not recommended for use over coal tar or pitch roofs unless the existing deck is separated by a minimum 1/2" thick, mechanically attached recover board. BITEC does not allow the use of plastic roofer's cement with any of its membranes.

Safety first! The roofing contractor and employees are the key to success regarding safety. Safety should always be first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

Technical Schedule		
3rd Party Independent: (NEMO ETC SGS SA Element Materials Technology)		
Design Standard	Type I, Grade G	
Reinforcement	Fiberglass	
Polymer / Modifier	SBS	
Coverage (nominal)	100 ft ² (9.3 m ²)	
Coverage	98.5 ft ² (9.2 m ²) installed	111.2 ft ² (10.3 m ²) / roll
Roll Dimensions	33.9' (10.3 m) length	3.28' (1.0 m) width
Weight	90 lbs / 100 ft ² (40.8 kg / 9.3 m ²)	92 lbs (41.7 kg) / roll
Membrane Surfacing	Top: Ceramic granules	Bottom: Coal Slag
Selvage Width	4" (10.16 cm)	
Selvage Surfacing	Bitumen / smooth	
Thickness	3.5 mm (nominal)	143 mils (average)
Average Results Reported Below:		
Test Direction		
	MD	XMD
Tear Strength	123 lbf (547.1 N)	104 lbf (462.6 N)
Peak Load @ 0°F (-17.8°C)	136 lbf (605.0 N)	118 lbf (524.9 N)
Peak Load @ 73°F (22.8°C)	99 lbf (440.4 N)	69 lbf (307.0 N)
Elongation at Peak Load @ 0°F (-17.8°C)	5%	7%
Elongation at Peak Load @ 73°F (22.8°C)	4%	3%
Ultimate Elongation	34%	37%
Low Temperature Flexibility @ -13°F (-25°C)	Pass	Pass
Aged (2,000 hours) Peak Load @ 0°F (-17.8°C)	171 lbf (760.6 N)	136 lbf (605.0 N)
Aged (2,000 hours) Peak Load @ 73°F (22.8°C)	104 lbf (462.6 N)	68 lbf (302.5 N)
Aged (2,000 hours) Elongation at Peak Load @ 0°F (-17.8°C)	5%	5%
Aged (2,000 hours) Elongation at Peak Load @ 73°F (22.8°C)	3%	3%
Aged (2,000 hours) Ultimate Elongation	8%	8%
Aged (2,000 hours) Low Temperature Flexibility @ 0°F (-17.8°C)	Pass	Pass
Dimensional Stability	0%	0%
Compound Stability	225°F (107.2°C)	
Granule Embedment (≤2g)	Pass	

ASTM D6163

ASTM D5147

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