

BITEC® Imperflex MSA is a premium quality SBS modified bitumen cap ply manufactured using a time-proven, proprietary blend of select asphalts and polymers with minimal use of fillers and additives. Imperflex MSA is designed for self-adhesive application over an Imperflex USA or SA2 base ply in residential roofing system configurations.

FEATURES & BENEFITS

Imperflex MSA also provides the following features and benefits:

- Meets or exceeds the criteria of:
 - * ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
 - * 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
- Bottom side surfaced with a patented, silicon-coated split release film for ease of application
- Reinforced with a notably strong fiberglass mat for superior dimensional stability and tensile strength

PACKAGING

Roll package: Protective cardboard carton

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 R-13231

NEMO Certified D8913610J

STANDARD SPECIFICATION(S):

ASTM D6163, TYPE I, GRADE G

ASTM D1970

FLORIDA PRODUCT APPROVAL

APPLICATION



Imperflex MSA is self-adhered by removing a patented split release film from the back of the membrane. End laps are treated with BITEC PMA-186 Polymer Modified Adhesive or PMA-2000 Flashing 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 Imperflex MSA 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 assumes no responsibility for any loss arising from misuse and/or misapplication of these products. Phased application of Imperflex self-adhesive products is not approved. When installed over a self-adhesive base ply, such as Imperflex USA or Imperflex SA2, the base ply must be covered by the cap ply during the same workday as a continuous application. Imperflex MSA shall never be applied directly to an existing roof system. Do not install this product on mobile homes, prefabricated structures, or where the roof deck, attic space, or areas under the roof deck lack adequate ventilation. Do not install this product directly to any type of roof insulation. Improper use of and/or improper installation of Imperflex products will void your warranty. Only mastics and adhesives provided or approved by BITEC should be used with our SBS membranes. Imperflex products should not be used in any interior space due to their asphaltic odor. Imperflex products can be slippery when wet or covered with frost and/or ice. Keep Imperflex products and all roofing components away from children and animals. Other conditions may apply to the use and installation of Imperflex products.

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' (10.3m) length	3.28' (1.0 m) width
Weight	95 lbs / 100 ft ² (43.1 kg / 9.3 m ²)	100 lbs (45.4 kg) / roll
Membrane Surfacing	Top: Ceramic Granules	Bottom: Split release film
Selvage Width	4" (10.16 cm)	
Selvage Surfacing	Polyethylene release film	
Thickness	3.5 mm (nominal)	147 mils (average)
Average Results Reported Below:		
	Test Direction	
	MD	XMD
Tear Strength	84 lbf (373.7 N)	77 lbf (342.5 N)
Peak Load @ 0°F (-17.8°C)	123 lbf (547.1 N)	96 lbf (427.0 N)
Peak Load @ 73°F (22.8°C)	57 lbf (253.5 N)	52 lbf (231.3 N)
Elongation at Peak Load @ 0°F (-17.8°C)	6%	5%
Elongation at Peak Load @ 73°F (22.8°C)	5%	6%
Ultimate Elongation	62%	67%
Low Temperature Flexibility @ -13°F (-25°C)	Pass	Pass
Aged (2,000 hours) Peak Load @ 0°F (-17.8°C)	160 lbf (711.7 N)	124 lbf (551.6 N)
Aged (2,000 hours) Peak Load @ 73°F (22.8°C)	84 lbf (373.7 N)	73 lbf (324.7 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)	5%	5%
Aged (2,000 hours) Ultimate Elongation	27%	28%
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 D1970
ASTM D6163

ASTM D5147

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