

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

FEATURES & BENEFITS

Imperflex USA 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 S) Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements
- Available with a polyethylene film or coal slag surface
- 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
- May be used as a vapor retarder, underlayment, or base ply for BITEC cap sheets as a 2-ply modified bitumen membrane

PACKAGING

Roll package: Protective cardboard carton

Rolls per pallet: 20

Pallets per truckload (typical): 18

APPROVALS

UL Classified R-13231

NEMO Certified D4877768J

STANDARD SPECIFICATION(S):

ASTM D6163, TYPE I, GRADE S

ASTM D1970

FLORIDA PRODUCT APPROVAL

APPLICATION



Imperflex USA is self-adhered by removing a patented split release film from the back of the sheet. End laps of the coal slag-surfaced product are treated using BITEC PMA-186 Adhesive or PMA-2000 Cement. 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 USA 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. Imperflex USA must be covered by the cap ply during the same workday as a continuous application. Imperflex USA 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 S	
Reinforcement	Fiberglass	
Polymer / Modifier	SBS	
Coverage (nominal)	150 ft ² (13.9 m ²)	
Coverage	144 ft ² (13.4 m ²) installed	161 ft ² (15.0 m ²) / roll
Roll Dimensions	49.2' (15.0 m) length	3.28' (1.0 m) width
Weight	53 lbs / 100 ft ² (24.0 kg / 9.3 m ²)	85 lbs (38.6 kg) / roll
Membrane Surfacing	Top: Polyethylene film or coal slag	Bottom: Split release film
Selvage Width	4" (10.16 cm)	
Selvage Surfacing	Polyethylene release film or coal slag	
Thickness	2 mm (nominal)	80 mils (average)
Average Results Reported Below:		
	Test Direction	
	MD	XMD
Tear Strength	102 lbf (453.7 N)	96 lbf (427.0 N)
Peak Load @ 0°F (-17.8°C)	92 lbf (409.2 N)	96 lbf (427.0 N)
Peak Load @ 73°F (22.8°C)	50 lbf (222.4 N)	39 lbf (173.5 N)
Elongation at Peak Load @ 0°F (-17.8°C)	4%	4%
Elongation at Peak Load @ 73°F (22.8°C)	4%	4%
Ultimate Elongation	32%	37%
Low Temperature Flexibility @ -13°F (-25°C)	Pass	Pass
Aged (2,000 hours) Peak Load @ 0°F (-17.8°C)	129 lbf (573.8 N)	122 lbf (542.7 N)
Aged (2,000 hours) Peak Load @ 73°F (22.8°C)	91 lbf (404.8 N)	74 lbf (329.2 N)
Aged (2,000 hours) Elongation at Peak Load @ 0°F (-17.8°C)	4%	4%
Aged (2,000 hours) Elongation at Peak Load @ 73°F (22.8°C)	4%	5%
Aged (2,000 hours) Ultimate Elongation	21%	25%
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)	

ASTM D1970
ASTM D6163

ASTM D5147

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

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