Imperflex® MSA

PRODUCT INFORMATION

Mineral surfaced SBS cap sheet used to complete the Imperflex roof system

OVERVIEW

Imperflex MSA is a mineral surfaced, SBS polymer modified bitumen cap sheet used to complete the Imperflex roof system. Imperflex MSA is intended for use on residential roofs where roof slopes prevent effective use of shingles, tile and/or metal.*

Imperflex MSA is composed of select SBS polymers blended with a special asphalt and reinforced with high-strength fiberglass mat. A split, silicon coated release film must be removed before installation. This film prevents the roll from sticking during storage and aids installation.

The membrane is coated on top with factory installed, colored ceramic coated roof granules. Silicon coated release film protects the 3.5" selvedge edge. The film must be removed for proper installation. The membrane is durable, resists coating slide at normal roof temperatures and is self-sealing.

Do not install on any roof with slope less than $\frac{1}{2}$ " in 12" or in areas where water stands or forms ponds.

IDEAL USES

Bitec recommends these products be used only for residential and light commercial roofs. Imperflex products used in light commercial roof applications shall be limited to certain flashing details as well as residential-like applications. All metal and wood surfaces receiving Imperflex must be primed with an approved water based SA primer. Imperflex products may or may not be suitable for certain constructions.

APPLICATION

Bitec strongly recommends the roof system installation provide positive drainage. Imperflex membranes used over wood decks or any other deck suspect of having excessive movement must be cut into half (½) lengths before installation. Imperflex membranes must be rolled in using a heavy steel roller to remove air and improve contact with surfaces. Flashing sheets can be rolled in using a seam roller or suitable tool. Imperflex end laps should be sealed using SBS modified bitumen adhesive to improve seal.



All metal must be primed and sandwiched between layers of Imperflex USA and Imperflex MSA. Imperflex products are not designed to fully replace or act as a substitute for polymer modified bitumen heat welded; hot asphalt; or adhesive applied roof membranes and systems. Imperflex products are an adjunct to these products.

Surface Preparation

All surfaces to be waterproofed with this product must be smooth, dry, free of projections, bulges and old roofing materials. Dust and moisture on any surface to be waterproofed and/or the membrane itself will prevent proper adhesion and could result in leaks. Never install this product over any old or existing roofing material or existing metal roofs.

Imperflex MSA is to be used as a cap sheet only, on slopes equal to or greater than ½" in 12". MSA comes with a factory installed adhesive. MSA cannot be used as a component in any Bitec commercial roofing specifications, except as noted. Prime all metal, wood, masonry and concrete surfaces using an approved water based SA primer. Primer should be applied according to manufacturers instructions.

Bitec strongly recommends the use of water based primers specifically manufactured for self adhering membranes. BITEC IM-PrimeTM is highly recommend as a primer for this application and is fully compatible with all of our SA products.

On wood or any other decks suspect of excessive movement, cut USA base ply and the MSA cap sheet into half (½) sheet lengths before installation. This will ease installation and help prevent wrinkling, ridging and fishmouths. Be sure that all end laps are sealed with lap adhesive such as Bitec PMA-186 or PMA-2000.

Install one ply of Imperflex USA. Then install the MSA. The Imperflex USA may also be installed as an inverted base ply with adhesive side up, mechanically fastened, leaving the release film in place until ready to install the Imperflex MSA cap sheet membrane.

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Temperature

Apply Imperflex MSA in fair weather when the air, deck and membrane temperature is 50°F (10°C) and rising up to 110°F (43°C). All surfaces receiving membrane shall be completely dry before product installation.

Cap Sheet Application

1. Starter strip

Peel back half sheet of release film. Align membrane at lower edge of roof and adhere the exposed membrane area to the prepared surface in shingle fashion. Always ensure proper alignment. Continue to peel both halves of release film in a manner that will allow smooth and even application of the membrane. Roll in by using a heavy roller to remove any trapped air. Remove selvedge release film.

When using an adhesive-to-adhesive side installation, remove only small areas of release film from the USA base ply to prevent contamination of the self adhering surface before applying the MSA cap sheet. Extreme care must be exercised when using and installing two self adhering surfaces together to prevent contamination, wrinkles or air pockets. Once a small area (each roll) is stuck together, it must be rolled with the heavy roller. Do not wait until an entire area (several rolls) is installed before "rolling in" membrane.

2. Subsequent courses of membrane

Install subsequent courses in a similar fashion staggering finished end laps by at least 3 feet. Finished end laps should be 6" min., while finished side laps should be 3.5" min. All end laps should be sealed using modified bitumen adhesive and rolled in at the time of application.

3. Construction details

Construction details are the same as for commercial grade SBS modified bitumen cap sheets. Refer to Bitec's published specifications for proper execution of flashing and construction details.

4. Residential roof valley and ridge

Remove release film. Center roll over area to be waterproofed. Start at low point and work upward. Press and work membrane outward from center.

Slope Limitations

Good roofing practice requires all modified bitumen roof systems result in positive drainage. *In all cases, a minimum roof slope of ½" in 12 will be required.*Sufficient drainage, for this purpose, is defined as complete and immediate removal of water from the roof surface resulting in no areas of standing water or ponds. Bitec strongly recommends this minimum slope guideline be adhered to, especially as it pertains to the installation

of Imperflex products. The determination of slope and the design of any roof system, as well as the selection of the roof system components, which includes the deck and can include existing roof components, is the sole responsibility of the contractor(s), owner(s) and/or owners' representative(s), and building code official(s).

Bitec will not determine the suitability of Imperflex for use on any construction or that the construction possesses an effective slope prior to product installation.

Imperflex products are manufactured to effectively provide a watertight roof membrane system if installed properly and in accordance to published Bitec standards and industry good roofing practice and on any construction that will accommodate its use.

PRECAUTIONS

- Bitec assumes no responsibility for any loss arising from misuse and/or misapplication of these products
- 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 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
- 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
- Only mastics and adhesives provided by or approved by BITEC should be used with our SBS membranes.

NOTE: Please refer to our publications for additional information regarding these products.

Please call 800-535-8597 for a copy or to inquire about conditions not covered.

WARRANTY

Imperflex MSA membrane is covered by a limited 10-year material only warranty, except as noted otherwise. Warranty must be registered to be in effect. Please call 800-535-8597 to request a copy of the warranty.





Technical Schedule	
MODIFIER	SBS
APPROX. ROLL SIZE	32.8 ft. x 3.28 ft (10 mx 1 m)
SEAM WIDTH	3.5 (88.9 mm)"
APPROX. COVERAGE	100 ft² (9.3 m²)
TOP SURFACE	Colored Mineral*
BOTTOM SURFACE	Release Film
NOMINAL THICKNESS	3.5 mm (140 mils)
NOMINAL WEIGHT	100 lbs (45.5 kg)
REINFORCEMENT	fiberglass mat
SOFTENING POINT (ASTM D36)	250°F (120°C)
COLD FLEXIBILITY (ASTM D5147)	13°F (-25°C)
TENSILE STRENGTH (ASTM D5147)	MD = 80 lbf/in (14.00 kN/m) XMD = 75 lbf/in (13.13 kN/m)
ELONGATION (ASTM D5147)	MD = 30% XMD = 30%

This product meets or exceeds ASTM D 1970.

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 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 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 the membrane.

Approvals:



STANDARD SPECIFICATION: ASTM D6163, TYPE I, GRADE I D1907 FLORIDA PRODUCT APPPROVAL: FL 5215.1-R6, FL 16347.1-R4

Member of:



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www.bi-tec.com

^{*}Standard colors are white, green, jet black and buff. Blended colors are tan blend, black blend, gray blend. All values are approximate.