

Smooth-surfaced SBS base sheet for use in Imperflex roof systems

OVERVIEW

Imperflex USA is a smooth-surfaced SBS polymer-modified bitumen base sheet or interply, intended specifically for use in Imperflex roof systems. This versatile product can also be used as an underlayment and for waterproofing below-grade foundations, footings and basements. Imperflex USA is durable, resists coating slide at normal roof temperatures, is self-sealing and resists water infiltration from snow and ice accumulation.

Imperflex USA is composed of select SBS polymers blended with distilled asphalt and reinforced with high-strength fiberglass mat. The membrane is protected on the bottom by a split, silicon-coated release film, which must be removed before installation. The release film prevents the roll from sticking during storage and aids in installation.

The membrane is coated on top with factory installed refractory slag or polyethylene film.

NOTE: You must specify which surface you require when ordering.

IDEAL USES

Imperflex USA, in addition to be an excellent base sheet in roof applications, may also be used as:

- Underlayment to protect against water infiltration caused by ice and water dams at penetrations, valleys and edges
- Waterproofing below-grade foundations, footings and basements

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 (1/2) 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

This product is designed for installation as an underlayment with shingles, tile, metal roofs or as below-grade waterproofing and as the base sheet in various Imperflex roof systems.

All surfaces to be waterproofed with this product must be smooth, dry, and 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.

This product comes with a factory installed adhesive and does not require other adhesives, hot asphalt or heat welding to be installed. This product 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. This primer should be applied according to manufacturer's instructions. However, as an option, an ASTM D41 asphalt primer may be used. **Bitec strongly recommends the use of water-based primers specifically manufactured for use with self-adhering membranes.** Apply according to manufacturers instructions.

Temperature

Apply Imperflex USA in fair weather when the air, deck and membrane temperature is 50°F (10°C) or above. All surfaces receiving membrane shall be completely dry before

product installation.

Base Sheet Application

For the various base sheet applications, refer to the Imperflex MSA Technical Bulletin.

Underlayment Application

Apply Imperflex USA in shingle fashion a minimum of 24" above the exterior wall of the building or as required by code. Peel back half sheet of release film. Align the membrane at the lower edge of the roof and adhere the exposed membrane area to the prepared surface. Continue to peel both halves of release film in a manner that will allow smooth and even application of the membrane.

Roll in the membrane using a heavy roller to remove any trapped air. For ice dam protection, apply Imperflex USA to extend above the uppermost expected level of ice dams. End laps should be 6" minimum. Side laps should be 3" minimum.

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 of application area. Side laps should be 3" minimum. End laps should be 6" minimum.

Slope Limitations

Good roofing practice requires all modified bitumen roof systems to result in positive drainage. In all cases, a minimum roof slope of 1/2" 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 USA shall never be left permanently exposed to the sun and for longer than 60 days
- Imperflex USA is a vapor barrier; proper ventilation must be maintained in moist climates to prevent interior condensation and to minimize ice dams
- 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

NOTE: Please refer to our publication "Roofing Material Specifications and Details" for information not covered in this document.

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

Imperflex USA rolls are 3.2' wide and 45.75' long.

Technical Schedule	
MODIFIER	SBS
APPROX. ROLL SIZE	45.75 ft. x 3.28 ft.
SEAM WIDTH	3"
APPROX. COVERAGE	150 ft. ²
TOP SURFACE	film or slag
BOTTOM SURFACE	release film
NOMINAL THICKNESS	2 mm
NOMINAL WEIGHT	85 lbs.
REINFORCEMENT	fiberglass mat
SOFTENING POINT (ASTM D-36)	240°F (116°C)
COLD FLEXIBILITY (UNI 8202)	14°F (-10°C)
TENSILE STRENGTH (ASTM D-412)	MD = 75 lbf/in XMD = 60 lbf/in
ELONGATION (ASTM D-412)	MD = 3% XMD = 3%

This product meets or exceeds ASTM D 1970. All values are approximate.

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.

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