

BITEC® Imperflex SA2 Base Sheet is a smooth surfaced rubberized asphalt base sheet or interply, intended specifically for use in Imperflex roof systems. This versatile product can withstand high temperatures (250°F / 121.1°C) and can also be used as an underlayment under asphalt shingles, metal or tile roofing, and for waterproofing below grade foundations, footings, and basements. Imperflex SA2 Base is a 2 sq (200 ft²) roll and is reinforced with a high strength fiberglass mat. The membrane is protected on the bottom by a split protective release liner for ease of removal during installation, as well as preventing the roll from sticking during storage.

FEATURES & BENEFITS

In addition to being an excellent base sheet for Imperflex roofing systems, Imperflex SA2 Base can also be used as:

- Underlayment to protect against infiltration caused by ice and water dams at penetrations, valleys, and edges.
- Underlayment for commercial roofing applications.
- Underlayment for high temperature (250°F / 121.1°C) installations
- Waterproofing below grade foundations, footings, and basements.
- Vapor retarder
- Temporary roof or night seal

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 SA2 Base must be primed with an approved water based SA primer, such as BITEC IM-Prime™. Imperflex products may or may not be suitable for certain constructions. If you have any questions related to a particular project, please contact BITEC Technical Services for more information on suitability.

PACKAGING

Imperflex SA2 Base is packaged in cartons in rolls of 200 ft², with 30 cartons per pallet.

STORAGE & HANDLING

Imperflex SA2 Base Rolls should be stored in the original cartons in a cool, dry location prior to use. Keep the packaged product out of direct sunlight.

APPLICATION

For best results, apply Imperflex SA2 Base when the temperature of the ambient air and surface is greater than 40°F (4.4°C). All surfaces receiving the membrane shall be

completely dry before product installation.

BITEC strongly recommends the roof system installation provides positive drainage. Imperflex membranes used over wood decks or any other deck suspected 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 the seal. BITEC recommends BITEC PMA-186 Modified Bitumen Adhesive or BITEC PMA-HV Membrane Adhesive.

All metal must be primed and sandwiched between layers of Imperflex MSA cap sheet and Imperflex base sheet. 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 adjunct to these products.

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 roof material or existing metal roofs.

Prime all metal, wood, masonry, and concrete surfaces using an approved water based SA primer. This primer should be applied according to the 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 BITEC IM-Prime, manufactured for use with self adhering membranes. Apply according to the manufacturer's instructions.

BASE SHEET APPLICATION

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

ROOF UNDERLAYMENT APPLICATION

Apply Imperflex SA2 Base in shingle fashion a minimum of 24" above the exterior wall of the building or as required by code. Peel back the half sheet of release film. Align the membrane at the lower edge of the roof and adhered the exposed membrane area to the prepared surface. Continue to peel both halves of the 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 SA2 Base 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, 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 SA2 Base shall never be left permanently exposed to the sun and for longer than 30 days.
- Imperflex SA2 Base 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 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.
- Avoid use of solvent based or silicone caulking when installing Imperflex SA2 Base.
- Do not install Imperflex SA2 Base over solvent based or silicone sealants unless fully cured. Active solvents may do irreparable harm to the bottom surface of the membrane.
- Do not install Imperflex SA2 Base over PVC or silicone roofing materials.
- Avoid installation of Imperflex SA2 Base over uncured plank or tongue and groove (T&G) boards.
- 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 or visit www.bitec.com to request a copy or to inquire about conditions not covered.

Technical Schedule	
Modifier	SBS
Approx. Roll Size	3 ft x 67 ft (0.9 m x 20.4 m)
Seam Width	3" (75 mm)
Coverage	184 ft ²
Top Surface	Smooth
Bottom Surface	Split release film
Nominal Thickness	45 mils (1.1 mm)
Nominal Weight (including carton)	55 lbs
Reinforcement	Fiberglass Mat
Vapor Permeance (ASTM E 96)	<0.01
Cold Flexibility (ASTM D1970)	Pass at -20°F (-28.9°C)
Tensile Strength (ASTM D1970)	MD >50 lbs / in, CMD >30 lbs / in
Adhesion to Plywood at 75°F (23.9°C) (ASTM D 903/1970)	>12 lbs / ft
Adhesion to Plywood at 40°F (4.4°C)	>2 lbs / ft

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 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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