

IMPERFLEX DPC-PLUS



IMPERFLEX DPC-PLUS are high performance, highly flexible, SBS modified bitumen reinforced waterproofing membranes, designed for damp proofing walls of brick, block, stone work or concrete in both solid or cavity wall constructions

SALIENT FEATURES

- Excellent flexibility at low temperature.
- Excellent performance under high compressive loads.
- Tough and durable

QUALITY ASSURANCE & MATERIAL WARRANTY

Imperbit Membrane Industries' Management system is registered to ISO 9001 standards & all **IMPERFLEX DPC-PLUS** membranes carry a 10 year material warranty. In addition to stringent regular test by IMI laboratory, our products are also tested periodically by independent laboratories.

STANDARDS

IMPERFLEX DPC-PLUS membranes conform to the requirements of BS 6398: 1983 TYPE B, UEAtc MOAT 31- 1984 & MOAT 64:2001 and tested in accordance with UEAtc MOAT 27 -1983, ASTM D 5147.

SURFACE FINISH AND SIZE

The top surface of the membrane is covered with a thin layer of PE film. The bottom surface is covered printed film.

The membranes are produced in thickness of 2, 2.6, & 3 mm and in a standard length of 10 mtrs. And 1 mtr width.

USES

IMPERFLEX DPC-PLUS membranes are ideal for general use in civil construction as a damp proof layer in the absence of hydrostatic pressure. Use **IMPERFLEX DPC-PLUS** to arrest the rise of moisture due to capillary action in masonry walls. The membrane provides barrier to the passage of moisture or water from the exterior to the interior or from the ground to the structure. The material has been specifically designed to prevent the membrane, extruding under imposed loading conditions and will prevent ingress of water vapour during the service life of the structure. It can be used vertically, horizontally and as a cavity tray. **IMPERFLEX DPC-PLUS** is resistant to compression even under the heaviest of wall loadings. **IMPERFLEX DPC-PLUS** may also be used as base sheet for waterproofing of roof slabs in inverted roof application.

TOOLS FOR FIXING THE MEMBRANE

Gas torch for welding, related cylinder, knife for trimming the membrane, a trowel with a rounded tip, marking aids and gloves.

APPLICATION

The installation must follow normal good practice for the detailing of damp proof courses, as set out in the relevant clauses of BS 5628 Part 3:2001 and must be in accordance with the manufacturer's instructions. The following installation practices are essential:

The membrane is introduced at the construction stage, during the erection of the brick work; block work or masonry wall using traditional building construction methods.

IMPERFLEX DPC-PLUS must extend through the full thickness of the wall or wall leaf, beyond external face by 5mm.

IMPERFLEX DPC-PLUS must be sandwiched between an even bed of wet mortar. Perforations in adjacent courses of brickwork must be completely filled with mortar.

All lap joints in the **IMPERFLEX DPC-PLUS** must have 100 mm over lap and be completely sealed. The method of laying, jointing and forming cavity trays should be accordance with the relevant building regulations and codes of practice.

IMPERFLEX DPC-PLUS is fully compatible with Imperseal self adhesive membranes to provide a moisture proof system.

IMI Concrete primer is used where required on brick, block or concrete work.

Properties		Typical Values		Method of Testing
Reinforcement core		60 gr./m ² glass fibre tissue	Polyester	UEAtc MOAT 31: Para F
Nominal thickness of membrane		2.0, 2.6 & 3.0		UEAtc , ASTM D 5147
Tensile Strength N/5cm	Longitudinal	350	550	UEAtc
	Transversal	200	300	
Elongation %	Longitudinal	3	30	UEAtc
	Transversal	3	40	
Tear Strength (N) (Notch method)	Longitudinal	200	300	ASTM D 5147
	Transversal	125	200	
Puncture resistance (N)		100	>400	ASTM E 154
Resistance to Hydrostatic pressure		>40 mtrs (>4 bars)		DIN 1048, ASTM D 5385
Flexibility at low temperature		- 15 ^o C		UEAtc
Softening Point *		120° C		UEAtc, ASTM D 36
Penetration @25° C *		30 dmm		UEAtc, ASTM D 5
Heat resistance @ 100°C		No flow		UEAtc
Water absorption @ 24 hrs.		<0.15 %		ASTM D570

*Compound Properties (Tested during manufacturing process)

The technical data given here are the average results of tests carried out in our laboratory on the **IMPERFLEX DPC-PLUS** membrane. IMI reserves the right to change or modify the data without prior notice. All reasonable care has been taken in compiling the data that to the best of our knowledge is accurate and true. All recommendations are made in good faith. No responsibility can be accepted by us and no warranty is implied with regard to any of the recommendations made in this data sheet, since the conditions of actual use and the labour involved are beyond our control. **IMPERFLEX DPC-PLUS** membranes are warranted to be free from manufacturing defects for a period of 10 years. **IMPERFLEX DPC-PLUS** membranes are not affected by chlorides, sulphates & phosphates as well as dilute acids found in ground water.

Packing Configuration:

IMPERFLEX-20-DPC-PLUS 33 rolls per pallet
 IMPERFLEX-26-DPC-PLUS 33 rolls per pallet
 IMPERFLEX-30-DPC-PLUS 28 rolls per pallet

NOMINAL ROLL LENGTH FOR ALL ABOVE PRODUCTS = 10 mtrs
AVAILABLE UPON REQUEST 20MTRS

Indicative Loading Capacity for 4mm thickness:

552 Rolls per 40 ft Trailer / 468 Rolls per 20 ft Container

Product generic name

SBS-TP-2F-PBS
 SBS-TP-2F-PBS
 SBS-TP-3F-PBS

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HANDLING PRECAUTIONS: IMPERFLEX DPC-PLUS

membranes have no health hazard when used with our standard application recommendations. IMI CONCRETE primer contains a flammable solvent with flash point of 42°C. Use primer in well ventilated areas away from sources of direct heat or ignition. Inhalation must be avoided and the use of protective clothing, rubber gloves, goggles and barrier cream is recommended. Do not use solvent to clean skin. After work clean hands with soap and warm water or suitable mild detergent. Obtain immediate medical advice if redness or skin irritation appears. In case of mouth or eye contact, flush immediately with fresh water and seek medical advice.

Storage:

Rolls must be kept up right at all times, in a covered well-ventilated storage area, away from sources of direct heat. If ambient temperatures at storage site fall below 10°C, the rolls should be exposed to warmer temperatures of 10°C to 40°C for periods of upto 2 hours prior to use to facilitate unrolling of the membranes. If stacking is necessary, ensure that rigid sheet of plywood is placed between the pallets. Do not stack more than 2 high. **IMPERFLEX DPC-PLUS** membrane has a shelf life of 12 months from the date of production, if stored in a cool, dry store in original unopened packing.

