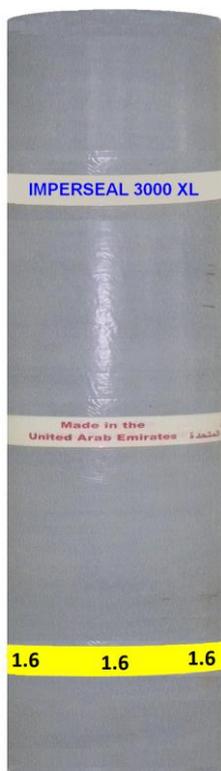


IMPERSEAL 3000 XL



IMPERSEAL 3000 XL is a tough preformed waterproofing membrane comprising a strong cross laminated multi layer HDPE film with superior mechanical properties and a thick elastic self adhesive SBS/ Bitumen compound, designed to provide sub-structure concrete surfaces with high waterproofing protection.

SALIENT FEATURES

- Peel & stick self adhesive waterproofing system
- Hot climate grade designed to withstand higher ambient temperature
- Fast cold application on a primed substrate
- Tough cross-laminated film on the surface for better protection.
- Unaffected by corrosive salts and dilute acids found in ground water.
- Self-sealing to minor puncture caused by sharp objects.
- SBS modified elastomeric bituminous mix exhibits excellent elongation and recovery properties.

USES

- Waterproofing under tiles in wet areas, such as kitchen, bathroom, balconies etc.
- Substructure waterproofing to areas subject to stress and movement.
- Tanking Water reservoirs and other liquid retaining, or liquid excluding, structures
- Suitable also for roof waterproofing
- Waterproofing of sewerage concrete manholes, chambers etc.
- As a vapour retarder

QUALITY ASSURANCE & MATERIAL WARRANTY

Imperbit Membrane Industries' Management system is registered to ISO 9001 standards.

SURFACE FINISH AND SIZE ROLL

The upper surface of **IMPERSEAL 3000 XL** is covered with standard black cross laminated HDPE Film (However White, Grey and Blue color films are available on request) along with 10cm wide strip of siliconized release film for bitumen to bitumen contact at side seams. The lower surface is totally covered with siliconized release film, providing a flat surface for total bonding during application.

TOOLS FOR FIXING

Knife, Measuring tape, Roller, Marking aids and Gloves

APPLICATION METHOD

Surface Preparation: Concrete shall be in place for seven days (minimum) after forms are removed and must be dry. Care should be taken that surfaces to be waterproofed are completely clean, totally dry, smooth, level and free from loose material. Any sharp protrusions such as nails, tying wire, etc. must be removed and cracks, holes, spilled and damaged surfaces filled and repaired. All external corners must be chamfered.

Priming: All vertical and horizontal surfaces must be coated with IMI Concrete Primer applied with a brush or roller at the rate of 200-300 gr/m² depending on the porosity of the surface, and allowed to dry completely.

Membrane Application: **IMPERSEAL 3000 XL** membranes are applied by positioning the roll over the area to be waterproofed and peeling the siliconized release film about one meter at a time, while pressing the adhesive surface to the primed substrate. The membrane is pressed from mid point to the edges in order to expel any trapped air and to ensure good contact. The adjacent roll is then positioned so as to overlap the fixed membrane by at least 80 – 100 mm along the edge. The selvedge strip provided at the edge of the fixed membrane is then peeled back one meter at a time while fixing the second roll in the same manner as the first. End laps must be min 150-mm wide. All seams must be pressed from the top using a suitable seam roller to ensure total contact and continuity at the seams.

Inspect the fixed membrane to ascertain that all joints are properly executed and all air is expelled from under the membrane.

Corners and Termination: Use fillets or cant strips at all internal corners and chamfer external corners before applying the membrane. Apply a 600-mm wide reinforcing strip of **IMPERSEAL 3000 XL** over the corners followed by the full membrane. Top edges of the membrane should be terminated in a chase on vertical surfaces, followed by a suitable bituminous mastic sealant.

Back Filling: Prior to back fills, the membrane should be protected. Protection Board/Sheet should be used to protect the membrane.

‡ TECHNICAL DATA FOR IMPERSEAL 3000 XL

PROPERTIES		TYPICAL VALUES	METHOD OF TESTING
Bituminous Compound			
Elongation of Adhesive compound (coating Compound) (%)		1000	ASTM D 882
Adhesion compound softening point (° C)		103	UEAtc, ASTM D 36
Surfacing Film			
Top Surfacing		Black Cross Laminated HDPE Film *	
Tensile Strength (N/mm ²)	Longitudinal	42	ASTM D 882
	Transversal	48	
Elongation (%)	Longitudinal	230	ASTM D 882
	Transversal	180	
Tear Strength (N/mm)	Longitudinal	340	ASTM D 1004
	Transversal	310	
Composite Membrane			
Nominal Thickness (mm)		1.5, 1.6, 2.0 & 2.1	UEAtc, ASTM D 751, ASTM D 5147
Tensile Strength (N/5cm)	Longitudinal	300	UEAtc
	Transversal	200	
Tear Resistance (N)	Longitudinal	149	ASTM D 5147
	Transversal	135	
Puncture Resistance (N)		220	ASTM E 154
Resistance to Hydrostatic Pressure m (Bar)		74 (7)	DIN 1048, ASTM D 5385
Flexibility at Low Temperature (° C)		- 20 Passes	UEAtc
Adhesion Strength (N/mm)	To primed concrete	2	ASTM D 1000
	Self	2.2	
Water Vapour Transmission (gr/m ² /24 hrs)		0.30	ASTM E 96
Water Absorption (%)	@ 24 hrs.	0.14	ASTM D 570
	@ 30 days	0.95	
Environmental Resistance		Conforms	ASTM D 543
Crack Bridge Ability (mm)		> 1.5	ASTM C 836
Service Temperature (° C)		7 ^o C – 50 ^o C	

* Available other colors like White, Grey & Blue with same above technical parameters on request.

HANDLING PRECAUTIONS: IMPERSEAL 3000 XL 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: IMPERSEAL 3000 XL rolls are shipped upright on wooden pallets. The roll must be kept upright at all times. Storage of Imperseal rolls should be in a well-ventilated and covered storage area. Membranes should be stored away from a source 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 ease of application and good bond to the substrate. Do not stack more than 1 high. IMPERSEAL 3000 XL has a shelf life of 12 months from date of production, if stored in a cool, dry store in original unopened packing.

Indicative Loading Capacity for 1.5 & 1.6mm thickness:
720 Rolls per 40 ft Trailer / 620 Rolls per 20 ft Container

Indicative Loading Capacity for 2.0 & 2.1mm thickness:
600 Rolls per 40 ft Trailer / 504 Rolls per 20 ft Container

PACKING: IMPERSEAL 3000 XL membranes are palletised and shrink-wrapped at the factory.

Product Name	IMPERSEAL 3000 XL			
Thickness (mm)	1.5	1.6	2.0	2.1
Rolls per pallet (Nos.)	30	30	25	25
Nominal Roll Length (mtrs)	15	15	15	15
Nominal Roll weight (kgs)	23	23	31	33

The technical data given here are the average results of tests carried out in our laboratory on the IMPERSEAL 3000 XL 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. IMPERSEAL 3000 XL membranes are warranted to be free from manufacturing defects for a period of 10 years. 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. IMPERSEAL 3000 XL membranes are not affected by chlorides, sulphates & phosphates as well as dilute acids found in ground water.

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