

IMPERSEAL 3000 AL

IMPERSEAL 3000 AL is a **Aluminium** surface solar reflective self-adhesive waterproofing membrane comprising of polyester film laminated to an aluminium foil for UV resistance on upper side and easily removable siliconized film on under side.

SALIENT FEATURES

- Peel & stick self-adhesive waterproofing system
- Aluminium surfacing, excellent solar reflectance
- Excellent tensile and tear strength
- Excellent water vapour barrier
- Fast cold application on a primed substrate
- SBS modified elastomeric bituminous mix exhibits excellent elongation and recovery properties

USES

- Multipurpose waterproofing membrane
- Ducts, porch roofs, mobile home roofs, small commercial roofs & dormers
- Gutters, valleys & HVAC units
- Up stand solutions, perimeter walls, chimneys & skylights
- Waterproofing of pipes and tanks
- Roof and gutter patching

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 AL** is covered with **Aluminium Foil** 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: 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.

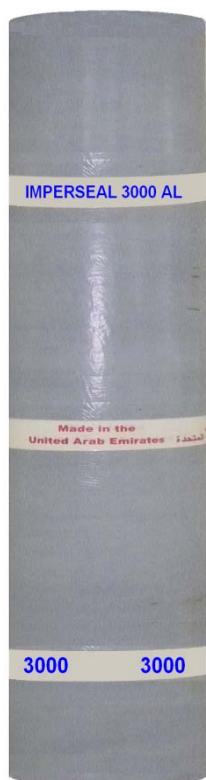
Priming: All vertical and horizontal surfaces must be coated with IMI Concrete Primer applied with a brush or roller at the rate of 200-300 gr/m² depending on the porosity of the surface, and allowed to dry completely.

Membrane Application: **IMPERSEAL 3000 AL** 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 AL** 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.



PROPERTIES		TYPICAL VALUES	METHOD OF TESTING
Reinforcing Core		50-60 GSM Fiberglass mat	UEAtc MOAT: 31 Para F
Nominal Thickness (mm)		1.5, 1.6, 1.8 & 2.0	UEAtc, ASTM D 751
Tensile Strength (Composite)	Longitudinal	450 N/5cm	UEAtc
	Transversal	310 N/5cm	
Elongation (Composite)	Longitudinal	3%	UEAtc
	Transversal	3%	
Tensile Strength (Surfacing film)	Longitudinal	100 N/mm ²	ASTM D 882/ D638/ D412
	Transversal	100 N/mm ²	
Elongation of compound (Coating Compound)		> 1000 %	ASTM D 882
Tear Strength (Surfacing film)	Longitudinal	450 N/mm	ASTM D 1004
	Transversal	310 N/mm	
Puncture Resistance		300 N	ASTM E 154
Heat Resistance @ 90 ⁰ C		No Flow	UEAtc, ASTM D 5147
Resistance to Hydrostatic Pressure		74 m (7 bar)	DIN 1048, ASTM D 5385
Flexibility at Low Temperature		- 20 ⁰ C passes	UEAtc
Adhesion Strength	To primed concrete & self	50 N/25mm	ASTM D 1000
Adhesive Softening point		103 ⁰ C	UEAtc, ASTM D 36
Water Vapour Transmission (Composite)		0.30 gr/m ² /24 hrs	ASTM E 96
Water Absorption	@ 24 hrs.	0.14%	ASTM D 570
	@ 30 days	0.95%	
Crack Bridging ability (mm)		>1	ASTM C 836
Environmental Resistance		Conforms	ASTM D 543
Service Temperature (Composite)		7 ⁰ C – 50 ⁰ C	

HANDLING PRECAUTIONS: IMPERSEAL 3000 AL membranes have no health hazard when used with our standard application recommendations. IMI CONCRETE primer contains a flammable solvent with flash point of 42⁰C. 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 AL 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 10⁰C, the rolls should be exposed to warmer temperatures of 10⁰C to 40⁰C 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 AL** 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, 1.6 & 1.8mm thickness:
660 Rolls per 40 ft Trailer / 620 Rolls per 20 ft Container

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

Product Name	IMPERSEAL 3000 AL	
Thickness (mm)	1.5 & 1.6	1.8
Rolls per pallet (Nos.)	30	25
Nominal Roll Length (mtrs)	15	15
Nominal Roll weight (kgs)	24	28

The technical data given here are the average results of tests carried out in our laboratory on the **IMPERSEAL 3000 AL** 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 AL** 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 AL** membranes are not affected by chlorides, sulphates & phosphates as well as dilute acids found in ground water.

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‡ This technical data sheet supersedes all previous publications pertaining to this product

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