

# AAZIL XE

**AAZIL XE** are polymer modified bitumen, reinforced waterproofing membranes for use in lieu of oxidized bitumen membranes, or Built-up Roofing (BUR) system and general waterproofing applications.

## SALIENT FEATURES

- Dimensionally stable membrane.
- Good heat resistance.
- Excellent resistance to chemicals & atmospheric agents.
- Higher softening point.
- Competitively priced.

## DESCRIPTION

**AAZIL XE** membranes are made by saturating and coating a robust reinforcement with a homogenous thermoplastic blend of polypropylene polymers, distilled bitumen and stabilizers. The mixture is carefully produced under controlled conditions to ensure its thermal stability at high temperature and flexibility at low temperatures.

**AAZIL XE** membranes are impermeable to water, easy to apply and available with the option of a mineral finish for exposed use.

## QUALITY ASSURANCE

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

## SURFACE FINISH AND SIZE OF ROLL

The top surface of the membrane is covered with a thin layer of PE film or fine sand. The bottom surface is covered with printed camel design film.

The membranes are produced in thickness of 3 & 4 mm and in a standard length of 10 mtrs and 1 mtr width.

## USES

**AAZIL XE** membranes are ideal for general use in single or multi-layer system. They are used on low slope concrete roofs, balconies, for lining sewerage canals, sub-grade structures and any concrete or cemented flat surface that needs economical waterproofing.

## TOOLS FOR FIXING THE MEMBRANE

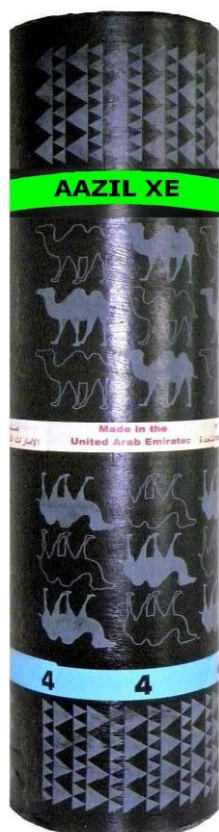
Gas torch for welding, related cylinder, knife for trimming the membrane, a trowel with a rounded tip, marking aids, gloves, and safety goggles.

## APPLICATION

The surface to be waterproofed must be completely cleaned and free of dust, oil, protruding nibs, nails etc. A coat of IMI Concrete Primer is then applied to the concrete surface at the rate of 200 – 300 gr/m<sup>2</sup>. The primer must be allowed to dry completely before fixing the membrane. **AAZIL XE** waterproofing membranes are fixed by torch welding the underside. The membrane rolls are lined up and spread open over the area to which they are to be fixed, starting at the lowest point on a roof-deck. The rolls are laid so that they overlap each other by at least 10cms along the side lap, lap-joints should shed water towards drains. The membranes are then rolled back without changing the given orientation. They are then unrolled once again while heating the underside sufficiently to cause surface melting. End laps should be a minimum 15 cms. Avoid excessive and uneven application of heat. The lap joints should be heated from the top to produce a thin bead of molten bitumen at the seam; the bead is then smoothed out with the trowel, ensuring a properly welded joint.

## EXPOSED ROOFING SYSTEM

For exposed application, skirting and flashings, **AAZIL XE** mineral membranes are used. These are produced with a self-protecting layer of natural or colored slate flakes. The membranes are provided with a selvedge 10 cms wide that is granule-free. This facilitates the forming of lap joints. End of roll joints are made by scraping off 15cm of mineral flakes or heating 15 cms of the mineral surface sufficiently to press-in the slate and expose the bitumen. The next roll is then torched to the bitumen of the exposed area.



Properties		Typical Values				Method of Testing
Reinforcement core		60 gr/m <sup>2</sup> glass fibre	160 gr/m <sup>2</sup> polyester	180 gr/m <sup>2</sup> polyester	200 gr/m <sup>2</sup> polyester	UEAtc, MOAT: 31 Para F
Nominal thickness of membrane		2, 2.6, 3 & 4mm	3 & 4mm	3, 4 & 5mm	4 & 5mm	UEAtc, ASTM D 5147
Tensile Strength, N/5cm	Longitudinal	350	550	750	900	UEAtc
	Transversal	200	350	550	700	
Elongation, %	Longitudinal	3	30	35	35	UEAtc
	Transversal	3	35	45	45	
Tear Strength, N (Notch Method)	Longitudinal	200	380	400	500	ASTM D 5147
	Transversal	150	250	300	400	
Puncture Resistance, N		250	550	750	900	ASTM E 154
Flexibility at low temperature		0 <sup>o</sup> C				UEAtc
Softening Point *		>150 <sup>o</sup> C				UEAtc, ASTM D 36
Penetration @ 25 <sup>o</sup> C *		15-20 dmm				UEAtc, ASTM D 5
Heat resistance @ 100 <sup>o</sup> C		No flow				UEAtc

\* Compound Properties (Tested during manufacturing process)

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

**HANDLING PRECAUTIONS:** **AAZIL XE** membranes have no health hazard when used with our standard application recommendations. IMI CONCRETE primer contains a flammable solvent with flash point of 42<sup>o</sup>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.

**Packing Configuration:**

- 3F-PBS/SAND 28 rolls per pallet
- 3P-PBS/SAND 28 rolls per pallet
- 4P-PBS/SAND 23 rolls per pallet
- 4P-MINERAL 20 rolls per pallet
- 5P-PBS/SAND/MINERAL 16 rolls per pallet

Nominal roll length for all above products = 10 mtrs  
For AAZIL XE Base Sheet- 20 rolls per pallet and 20 mtrs length

**Indicative Loading Capacity for 4mm thickness:**

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

**Product generic name**

- AAPXE-3F-PBS/SAND
- APPXE-3P-PBS/SAND
- APPXE-4P-PBS/SAND/MINERAL
- APPXE-5P-PBS/SAND/MINERAL

**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 15<sup>o</sup>C, the rolls should be exposed to warmer temperatures of 15<sup>o</sup>C to 40<sup>o</sup>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. **AAZIL XE** membrane has a shelf life of 12 months from the date of production, if stored in a cool, dry store in original unopened packing.

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

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**Ed-04**