

# COMPOBIT



**COMPOBIT** is technically Advanced, High Performance elasto-plastomeric bitumen waterproofing membrane reinforced with a heavy duty non-woven polyester and glass fiber tissue core.

## DESCRIPTION

**COMPOBIT** membranes are made by first saturating and then coating double reinforcement core, comprising glass fiber tissue & non-woven polyester. The elasto-plastomeric compound allows the membrane superior adhesion to substrates, stability against thermal shock, particularly during high and low temperature cycles.

## QUALITY ASSURANCE & MATERIAL WARRANTY

Imperbit Membrane Industries' Management system is registered to ISO 9001 standards & all **COMPOBIT** 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

**COMPOBIT** membrane conform to the requirement of UEAtc, MOAT: 31, ASTM D 6162, when tested in accordance with ASTM D 5147 & UEAtc, MOAT: 27.

## SURFACE FINISHED AND SIZE OF ROLL

The top surface of the membrane is finished with PE film with IMI logo or fine sand. The bottom surface is covered with a thin layer of Printed film with IMI design. For exposed application the top surface is covered with a layer of natural slate flakes to protect the membrane from UV rays. The slate flakes are also available in attractive colours on request. The 1 meter wide membranes are produced in thickness of 3, 4 and 5 mm and in a standard length of 10 meters.

## DOUBLE REINFORCEMENTS

**COMPOBIT** is available in two types 200 & 270 double reinforced membranes for waterproofing of large decks where dimensional stability of the membrane is important. The combination of polyester and fiberglass mat reinforcement ensures superior shape and dimensional stability under severe cyclic conditions.

## 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 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.

**COMPOBIT** 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.

## EXPOSE APPLICATION

COMPOBIT-MINERAL membranes are used for exposed applications. These are membranes self protected by a layer of natural slate flakes embedded in the upper compound coated surface. This layer of slate provides protection from exposure to harmful UV, while giving the membrane an aesthetically pleasing appearance.

## CORNERS AND TERMINATION:

Use fillets or cant strips at all internal corners and chamfer external corners before applying the membrane. A minimum of 250-mm wide reinforcing strip of **COMPOBIT** is recommended 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.

Properties		COMPOBIT 200	COMPOBIT 270	Method of Testing
Reinforcement core		200 gr/m <sup>2</sup> polyester & 60 gr/m <sup>2</sup> glass fiber tissue	250 gr/m <sup>2</sup> polyester & 60 gr/m <sup>2</sup> glass fiber tissue	UEAtc, MOAT: 31 Para F
Nominal thickness of membranes		4, 4.5 & 5 mm		UEAtc, ASTM D 5147
Tensile strength N/ 5 cm	Longitudinal	950	1200	UEAtc
	Transversal	700	900	
Tensile strength kN/m	Longitudinal	16	20	ASTM D 5147
	Transversal	10	15	
Elongation, %	Longitudinal	50	50	ASTM D 5147, UEAtc
	Transversal	55	55	
Tear resistance, N (Nail method)	Longitudinal	280	300	UEAtc
	Transversal	300	320	
Tear strength, N (Notch method)	Longitudinal	600	750	ASTM D 5147
	Transversal	450	600	
Puncture Resistance, N		1000	1300	ASTM E 154
Puncture Resistance	Static Indentation	L <sub>4</sub>		UEAtc
	Dynamic Indentation	I <sub>4</sub>		
Resistance to hydrostatic pressure		>70 m (7 bars)		ASTM D 5385, DIN 1048
Flexibility at Lower temperature		-20 to -25 °C		UEAtc, ASTM D 5147
Dimensional stability, L/T (%)		± 0.5		ASTM D 5147
Penetration @ 25°C *		25 dmm		UEAtc, ASTM D5
Heat resistance, 100 °C		No flow		UEAtc, ASTM D 5147
Water Absorption @ 24 Hrs (%)		0.15		ASTM D 570

\* Compound Properties (Tested during manufacturing process)

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

**PACKING CONFIGURATION:**

4P-PBS/SAND 23 rolls per pallet  
 4P-PBS/MINERAL 20 rolls per pallet  
 5P-PBS/SAND 16 rolls per pallet  
 Nominal roll length for above products = 10 mtrs

**INDICATIVE LOADING CAPACITY FOR 4MM THICKNESS:**

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

**PRODUCT GENERIC NAME:**

XS-200-4P-PBS/SAND  
 XS-200-4P-MINERAL  
 XS-200-5P-PBS/SAND/MINERAL

**HANDLING PRECAUTIONS: COMPOBIT** 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 up to 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. **COMPOBIT** 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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