

KEYTEC MRC 1500

Reinforced Chemical Resistant Membrane

WHAT IS MRC1500?

MRC1500 is a synthetic reinforced membrane based on a polyester textile which is molecularly coated with a high quality resin. The polyester tissue gives high mechanical properties to the membrane while the coating provides the waterproofing and chemical resistance. The tissue consists of polyester threads. The polyester tissue is firstly impregnated with a resin to avoid all wicking effects; then the tissues are coated with a resin. This resin is an "interethylene polymer resin" which provides the membrane with a high resistance against petroleum products and other chemicals. MRC1500 membrane is very flexible and has a high dimensional stability.

SUGGESTED SPECIFICATION

Keytec MRC1500 is a synthetic reinforced membrane based on a polyester textile which is molecularly coated with a high quality resin. It has a mass per unit area of 1092gm² and a thickness of 0.91mm

EFFECT OF FLUID ON MEMBRANE

Fluid has little or no effect - Acetic acid (5%), Ammonium phosphate, Ammonium hydroxide, Ammonium sulphate, Antifreeze (ethylene glycol), Vinegar (8%), Butanone, Calcium chloride-solution, Calcium hydroxide, Chlorine solution (20%), Clorox (bleaching agent), Diesel, Ethanol, Phosphoric acid(50%), Glycerine, Hydrochloric acid HCl (50%), Hydrofluoric acid HF (5%), Hydrofluoric acid HF (50%), Isopropyl alcohol, Potassium chloride, Potassium sulphate, Kerosene, Magnesium chloride, Magnesium hydroxide, Fertiliser solution, Methanol, Mineral spirits, Sodium acetate solutions, Sodium bisulphate solution, Sodium phosphate, Sodium hydroxide (60%), Nitric acid (5%), Oils: ASTM type 3, animal, vegetable, hydraulic – petroleum, corn, crude, raw linseed, SAE-30, transformer, Turpentine, Water (potable) 23°C, Water (sea) 23°C, Zinc chloride, Sulphuric acid (50%)

MATERIAL SPECIFICATION

PROPERTY		UNIT	VALUE	TEST METHOD
Thickness		mm	0.91	ASTM D-751/DIN 53370
Weight		g/m ²	1092	ASTM D-751/DIN 53370
Dimensional stability		%	0.5 max	ASTM D-1204/DIN 53377
Tear strength	MD	N/mm	800	DIN 53515
	CD	N/mm	771	ASTM D-751 (grab tensile)
Tensile strength	MD	N	3646	ASTM D-715/ASTM D-413
	CD	N	3302	ASTM D-751
Adhesion weld		N/5cm	175	ASTM D-751/D-4833
Hydrostatic resistance		N/cm ²	577	ASTM D-751 (ball trip)
Puncture resistance		N	1238	ASTM D-696
Bursting strength		N	3347	ASTM D-2136
Thermal expansion coefficient		Mm/mm/°c	1.8x10-5	
Blow temperature resistance		°c	To -35	
Roll width		m	2.5	
Roll length		m	200	

