

INTRODUCTION:

MULTIGUARD[®] HYDROFAB[®]-PV 1730 is a PVC (Polyvinyl Chloride) Geo Membrane. It is a single-layer membrane consisting of two different colours of layers. It is light coloured on one side & black on the other. The light colour helps in identifying the damages that may occur during application. PVC membranes have a wide range of benefits for tunnels, the most important is cost-saving in remediation, repairs, maintenance, or replacement over the expected lifespan of the project.

It is a PVC membrane for waterproofing of tunnels, foundations, underground parts of buildings and structures.

Unique Features:

- Good Resistance to Punching
- Resistance to roof penetration
- Fast Application
- Welded joints for maximum water-tightness
- Having relatively low Elastic Modulus so that they can withstand deformation more easily.
- High tensile strength and high joint strength at welds
- Resistance to the Water-borne Chemicals
- Economical and Sustainable
- Good Pliability to enable installation on undulated surfaces

USES:

The various areas of application are Podium, Basements, Reservoirs, Canal, Retaining wall, Tunnel, Lake.

To waterproof basement, tunnel, flyover and damp-proof concrete, cement rendering, brickwork and blockwork. To protect concrete against the effects of freeze-thaw cycles, de-icing salts, carbon dioxide and other acid gases, dilute acids and alkalis.

This includes: Waterproofing of concrete slabs, balconies, water tanks, sealing internal basement and cellar walls against dampness, protection of concrete structures in



marine environments, external tanking of substructure concrete such as basement walls in new buildings.

TECHNICAL DATA:

PROPERTIES	TEST METHOD	RESULT	UNIT
Thickness	EN 1894-2	≥2	mm
Tensile Strength	EN 12311-2	≥17	N/mm ²
Elongation at break	EN 12311-2	≥300	%
Resistance to Tear	EN12311-2	≥100	N/mm
Static Puncture Test	EN ISO 12236	≥100	KN
Water Tightness Test (0.5N/mm ² for 24 h)	EN 1982 method B
Resistance to joints	EN 12317-2	≥10.5	N/mm ²
Cold bending Test (At -35°C)	EN 495/5
Change of dimensional (70°C for 2 h)	EN 1110	+ /- 2% min	%
Fire Resistance test	EN 13501-1	Classification

Typical test values represent average values from samples tested.

APPLICATION DATA:

- PVC Membrane can be installed on Basement Raft, Retaining walls and Podiums.
- Hot air or hot wedge welding achieves correct assembly of the HYDROFAB PV 1730 membrane.
- The weldability and the quality of the welding done on site can be influenced by atmospheric conditions (temperature, humidity of the air) and also by the state of surface of the membrane and must be adapted in consequence.
- An anti-puncturing geotextile or a composite (protective membrane with laminated fleece) should be placed onto the support of the waterproofing.

Protection

The membrane shall be protected from damage due to ongoing site activities or from aggregates during backfilling by a tough, weather, warp and rot proof protection board (**Multiboard / Multistick**). Alternatively, on horizontal areas the membrane can also be protected by laying a cement sand screed (50mm). **Multiboard** can be fixed with a double-sided adhesive bitumen tape (**Multistick**).





COVERAGE

40 Sq.m (Dimensions: 20m x 2m)

STORAGE:

Rolls of synthetic membranes are delivered on pallets. Every roll is packed in the additional individual pack. Rolls should be stored lying down on pallets fully protected from moisture with clean canvas tarpaulins. Keep the minimum distance of 1 m from any source of heat. Shelf life if all storage requirements are met: 18 months from the date of production.

SAFETY DATA:

Wear suitable protective clothing, gloves and eye/face protection.

Please consult our technical department for further information.

WARRANTY

Multichem warrants Multiguard[®] HYDROFEB[®]-PV 1730 to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Multiguard[®] HYDROFEB[®]-PV 1730.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of Multiguard[®] HYDROFEB[®]-PV 1730.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.



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