

MASTERPREN[®] PW

Synthetic membrane of plasticised PVC

Description

MASTERPREN PW is a synthetic membrane of plasticised PVC manufactured by co-extrusion. Designed specifically for the waterproofing and lining of tanks and containers intended to hold liquids for human consumption, especially drinking water. It is non-toxic in nature.

Typical applications

MASTERPREN PW can be applied in the following circumstances:

- Potable water tanks
- Reservoirs and tanks containing liquid food products for human consumption

Advantages

- Non-toxic. Complies with local and international food and hygiene standards
- It has superior mechanical characteristics
- High mechanical properties and resistance to puncturing
- Rot-proof with a long life expectancy
- UV and light stable
- Long life expectancy

Packaging and roll sizes

MASTERPREN PW is a white coloured membrane and is supplied in various thickness with 2.10 meter width and in lengths of 20 meters.

Application procedure

Usually applied by Specialist Applicator. Please contact BASF Construction Chemicals for specific application assistance.

Thickness (mm)	1.2	1.5	2.0
Width (m)	2.10	2.10	2.10
Length (m)	20	20	20
Colour	White*		

*on request, available in grey colour

Watertight Systems & Engineered Solutions

BASF Construction Chemicals provide systems and engineered solutions, to suit the structure, at the design and construction stages, to ensure water tightness. Various products and elements which form an integral part of a system are manufactured and approved by BASF. The following ranges of products are available;

- Masterpren range – Preformed membranes
- Masterflex range - Active and passive joint treatment
- Masterseal range - Liquid applied membranes and protective coatings
- Masterflow range - High performance grouts
- Emaco and Concrevice ranges - Repair materials

Storage

Store out of direct sunlight, clear of the ground and on pallets.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals representative.

BASF reserves the right to have the true cause of any liability determined by accepted test methods.

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*Physical / Chemical Properties

Thickness UNI EN 1849 - 2	1.2mm	1.5mm	2.0mm
Specific weight UNI EN 1849 - 2	1.54 kg/m ²	1.92 kg/m ²	2.56 kg/m ²
Tensile strength UNI EN ISO 527 - 3	≥ 17 N/mm ²	≥ 17 N/mm ²	≥ 17 N/mm ²
Elongation to break DIN EN ISO 527 - 03	≥ 300%	≥ 300%	≥ 300%
Puncture resistance DIN 16726 – 5.12	≥ 450 mm	≥ 800 mm	≥ 1100 mm
Cold bending UNI EN 495 - 5	≤ - 30°C	≤ - 30°C	≤ - 30°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 meth. B	Waterproof	waterproof	Waterproof
Root resistance DIN 4062	No penetration	No penetration	No penetration
Suitable for contact with foodstuffs D. M. 21/3/73	Suitable for Ia; Ib; IVa; IVb type foodstuffs	Suitable for Ia; Ib; IVa; IVb type foodstuffs	Suitable for Ia; Ib; IVa; IVb type foodstuffs
Resistance to tearing UNI EN 12310 - 2	≥ 80 N/mm	≥ 80 N/mm	≥ 80 N/mm
Tear resistance ISO 34 specimen fig. 2	≥ 45	≥ 45	≥ 45
Resistance to oxidation tensile strength variation UNI EN 14575	< 25 %	< 25 %	< 25 %
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 1450	≥ 1800	≥ 2450
Resistance to weathering (12000 h) Tensile strength variation UNI EN 12224	< 25 %	< 25 %	< 25 %
Resistance to leaching UNI EN 14415 method A and B			
Tensile strength variation	< 25 %	< 25 %	< 25 %
Loss in mass	< 5 %	< 5 %	< 5 %

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational Health & Safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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* Properties listed are based on laboratory controlled tests which are carried out immediately after production.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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