

MASTERPREN[®] HE

Synthetic membrane of plasticised PVC

Description

MASTERPREN[®] HE Synthetic membrane of plasticised PVC (two colour version light grey/dark grey) manufactured by co-extrusion. This enables the production, of a single layer of membrane where the two surfaces have different chemical-physical properties. The upper surface (grey and exposed) is characterized by an extremely high resistance to weathering & UV rays, while the lower surface is characterised by an extremely high resistance to puncturing and root penetration.

Typical applications

MASTERPREN HE can be applied in the following circumstances:

- Water retaining structures
- Water features
- Reservoirs
- Artificial lakes
- Canals

Advantages

- It has superior mechanical characteristics an extremely high resistance to weathering and ultra violet rays
- High mechanical properties and resistance to puncturing
- Rot-proof
- Dimensionally stable
- Resistant to hot-cold temperature cycles
- Adequate resistance to chemicals when immersed in water
- Resistant to root penetration
- Long life expectancy

Packaging and roll sizes

MASTERPREN HE is supplied in various thickness with 2.10 meter width and in lengths of 20 meters. Colours available are Light and dark grey.

Thickness (mm)	1.5	2.0	2.2
Width (m)	2.10	2.10	2.10
Length (m)	20	20	20
Colour	Light grey / dark grey		

Application procedure

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

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 Concesive ranges - Repair materials

Storage

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

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*Physical / Chemical Properties

Thickness UNI EN 1849 - 2	1.5 mm	2.0 mm	2.2 mm
Specific weight UNI EN 1849 - 2	1.95 Kg/m ²	2.60 Kg/m ²	2.96 Kg/m ²
Tensile strength UNI EN ISO 527 - 3	≥ 17.5 N/5cm	≥ 17.5 N/5cm	≥ 17.5 N/5cm
Elongation to break UNI EN ISO 527 - 3	≥ 300 %	≥ 300 %	≥ 300 %
Puncture resistance DIN 16726 - 5.12	≥ 800 mm	≥ 1100 mm	≥ 1400 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
Resistance to tearing UNI EN 12310 - 2	≥ 80 N/mm	≥ 80 N/mm	≥ 80 N/mm
Tear Resistance ISO 34 specimen fig. 2	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 1800 N	≥ 2450 N	≥ 2800 N
Resistance to oxidation tensile strength variation UNI EN 14575	< 25 %	< 25 %	< 25 %
Resistance to weathering (12000 h) Tensile strength variation UNI EN 12224	< 25 %	< 25 %	< 25 %
Resistance to leaching UNI EN 14415 meth A & B Tensile strength variation Loss in mass	< 25 % < 5 %	< 25 % < 5 %	< 25 % < 5 %

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.

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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