

# MASTERPREN<sup>®</sup> HR

## Synthetic membrane of plasticised PVC

### Description

MASTERPREN HR is a synthetic single layer membrane of plasticised PVC manufactured by co-extrusion, using plasticised polymers which are resistant to hydrocarbons.

### Typical applications

MASTERPREN HR can be applied in the following circumstances:

- Environmental protection of drains and water reservoirs contaminated with hydrocarbons
- Environmental containment

### Advantages

- Superior mechanical characteristics
- High mechanical properties and resistance to puncturing
- Rot-proof
- High resistance to chemicals and hydrocarbons
- Resistant to root penetration
- Long life expectancy

### Packaging and roll sizes

MASTERPREN HR is a black membrane and is supplied in various thickness with 2.10 meter width and in lengths of 20 meters.

Thickness (mm)	1.5	1.8	2.0
Width (m)	2.10	2.10	2.10
Length (m)	20	20	20
Colour	Black		

### 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 Concrecive 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	1.8 mm	2.0 mm
Specific weight UNI EN 1849 - 2	1.80 Kg/m <sup>2</sup>	2.15 Kg/m <sup>2</sup>	2.40 Kg/m <sup>2</sup>
Tensile strength UNI EN 12311 - 2	≥ 17.5 N/mm <sup>2</sup>	≥ 17.5 N/mm <sup>2</sup>	≥ 17.5 N/mm <sup>2</sup>
Elongation to break UNI EN 12311 - 2	≥ 300%	≥ 300%	≥ 300%
Puncture resistance DIN 16726 - 5.12	≥ 800 mm	≥ 900 mm	≥ 1100 mm
Tear resistance UNI EN 12310 – 2	≥ 120 N	≥ 145 N	≥ 160 N
Cold bending UNI EN 495 – 5	≤ -25°C	≤ -25°C	≤ -25°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 met. B	Waterproof	waterproof	Waterproof
Dimensional stability after 6 hours at 80°C UNI EN 1107 - 2	≤ ± 2.0 %	≤ ± 2.0 %	≤ ± 2.0 %
Root resistance DIN 4062	No penetration	No penetration	No penetration
Thermal ageing in air after 168 d at 70°C Cold Bending UNI EN 1296	≤ - 25 °C	≤ - 25 °C	≤ - 25 °C
Peel resistance of joints UNI EN 12316 - 2	≥ 150 N/50 mm	≥ 150 N/50 mm	≥ 150 N/50 mm
Shear resistance of joints UNI EN 12317 - 2	Breaking out of joint	Breaking out of joint	Breaking out of joint
Resistance to impact UNI EN 12691	10 mm	10 mm	10 mm
Resistance to static punching UNI EN 12316	≥ 20 kg	≥ 20 kg	≥ 20 kg

### 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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**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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