

# MASTERPREN<sup>®</sup> BG

## Synthetic membrane of plasticised PVC

### Description

MASTERPREN BG is a synthetic membrane made of plasticised PVC manufactured by twin coloured co-extrusion method.

### Typical applications

MASTERPREN BG can be applied in the following circumstances:

- Below ground Building structures
- Tunnels
- Water exclusion and protection of structures

### Advantages

- Superior mechanical characteristics
- Signal layer shows damage and aids visual inspection on-site
- High mechanical resistance and elasticity
- Long life expectancy
- Resistance to wash-out action
- Resistance to root penetration
- Resistance to bursting at high water pressure
- Double weld allows pressure testing of joints
- May be welded to MASTERFLEX W4 water stop to compartmentalise the structure
- Loose laid to act independently of structural movement

### Packaging and roll sizes

MASTERPREN BG is supplied in various thickness with 2.10 meter width. Lengths can be manufactured to suit specific requirements but is generally 20 meters.

Thickness	1.5mm	2.0	2.2mm	3.0mm
Width	2.10m	2.10m	2.10m	2.10m
Length	20m	20m	20m	20m
Colour	Green / 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 watertightness. 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	2.0 mm	2.2 mm	3.0 mm
Specific weight UNI EN 1849 - 2	1.950 kg/m <sup>2</sup>	2.600 kg/m <sup>2</sup>	2.860 kg/m <sup>2</sup>	3.900 kg/m <sup>2</sup>
Ultimate Tensile strength UNI EN ISO 527-3				
Transverse	16.4 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )	16.4 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )	16.4 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )	16.4 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )
Machine direction	16.7 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )	16.7 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )	16.7 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )	16.7 N/mm <sup>2</sup> (-1.5 N/mm <sup>2</sup> )
Elongation UNI EN ISO 527 - 3				
Transverse	310% (-30%)	310% (-30%)	310% (-30%)	310% (-30%)
Machine direction	310% (-30%)	310% (-30%)	310% (-30%)	310% (-30%)
Impact strength DIN 16726 - 5.12	≥ 600 mm	≥ 750 mm	≥ 750 mm	≥ 1700 mm
Puncture resistance DIN 16726-5.12	≥ 1000 mm	≥ 1100 mm	≥ 1200 mm	≥ 1800 mm
Cold bending UNI EN 495 - 5	≤ - 25°C	≤ - 25°C	≤ - 25°C	≤ - 25°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 meth. B	Waterproof	Waterproof	Waterproof	Waterproof
Tear resistance ISO 34 specimen fig. 2	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 1700 N	≥ 2300 N	≥ 2300 N	≥ 3400 N
Resistance to oxidation UNI EN 14575 Tensile strength variation	< 25 %	< 25 %	< 25 %	< 25 %
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration

### 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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