

MASTERPREN[®] RB

Synthetic membrane of plasticised PVC

Description

MASTERPREN RB is a synthetic membrane made by the casting process. Made of plastisol layers with different chemical and physical properties and has a layer of 50 g/m² glass fiber inserted for dimensional stability. It also has a 200 g/ m² non-woven polyester felt, to aid bonding to the substrate with an adhesive. A bitumen resistant grade, with a 300 g/ m² non-woven polyester felt, is also available.

Typical applications

MASTERPREN RB can be applied in the following circumstances:

- Exposed and architectural Roof Structures
- Landscaped areas and Roof Gardens
- Refurbishment of Roofs with existing bitumen waterproofing, using a variant of this membrane.

Advantages

- It has superior mechanical characteristics and high resistance to weathering and ultra violet rays
- High mechanical properties and resistance to puncturing
- Dimensionally stable
- Resistant to hot-cold temperature cycles
- Custom colours possible to aid architectural design
- Bitumen resistant variant available
- Long life expectancy

Packaging and roll sizes

MASTERPREN RB is supplied in various thicknesses with 1.60 metre width and in lengths of 20 metres.

Thickness (mm)	1.2	1.5	1.8	2.0	2.4
Width (m)	1.6	1.6	1.6	1.6	1.6
Length (m)	20	20	20	20	20
Colour	Light 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 Concrevice 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	1.2 mm	1.5 mm	1.8 mm	2.0 mm	2.4 mm
Specific weight UNI EN 1849 - 2	1.70 kg/m ²	2.00 kg/m ²	2.35 kg/m ²	2.60 kg/m ²	3.10 kg/m ²
Tensile strength UNI EN 12311 - 2	≥ 650 N/5 cm	≥ 700 N/5 cm	≥ 800 N/5 cm	≥ 900 N/5 cm	≥ 1100 N/5 cm
Elongation at break UNI EN 12311-2	≥ 80 %	≥ 80 %	≥ 80 %	≥ 80 %	≥ 80 %
Tear resistance UNI EN 12310 - 2	≥ 150 N	≥ 170 N	≥ 180 N	≥ 200 N	≥ 220 N
Puncture resistance DIN 16726-5.12	≥ 450 mm	≥ 800 mm	≥ 900 mm	≥ 1000 mm	≥ 1500 mm
Cold bending UNI EN 495 - 5	≤ -25°C	≤ -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	waterproof
Dimensional stability (%) after 6 hours at 80°C – UNI EN 1107 - 2	≤ ± 0.1 %	≤ ± 0.1 %	≤ ± 0.1 %	≤ ± 0.1 %	≤ ± 0.1 %
Resistance to artificial weathering UNI EN 1297	no cracking	no cracking	no cracking	no cracking	no cracking
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration
Resistance to hail on rigid substrate UNI EN 13583	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s
Thermal ageing in air after 168 d at 80°C UNI EN 1296	≤ -25°C	≤ -25°C	≤ -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	≤ 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	Breaking out Of joint	Breaking out Of joint
Resistance to impact UNI EN 12691	20 mm	10 mm	10 mm	10 mm	10 mm
Resistance to static punching UNI EN 12316	≥ 20 kg	≥ 20 kg	≥ 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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