

MASTERPREN[®] RC

Synthetic membrane of plasticised PVC

Description

MASTERPREN RC is a synthetic membrane made by the casting process. Made of plastisol layers with different chemical & physical properties and has a layer of glass fibre inserted for dimensional stability.

Typical applications

MASTERPREN RC can be applied in the following circumstances:

- Below ground Building Structures
- Covered and inverted roofing structures
- Landscaped areas and roof gardens

Advantages

- Superior mechanical characteristics
- A red signal layer shows damage and aids visual inspection on-site
- High mechanical resistance and elasticity
- Rot-proof
- Vapour permeable
- Resistance to root penetration
- Resistance to puncturing
- Double seal allows pressure testing of joints
- Can be compartmentalised by a unique engineered method.
- Loose laid to act independently of structural movement
- Good resistance to hydrocarbons and bacterial attacks
- Long life expectancy

Packaging and roll sizes

MASTERPREN RC is supplied in various thicknesses with 1.60 meter width. Lengths can be manufactured to suit specific requirements but is generally 20 meters.

Thickness (mm)	1.2	1.5	1.8	2.0	2.4	3.0
Width (m)	1.60	1.60	1.60	1.60	1.6	1.6
Length (m)	20	20	20	20	20	20
Colour	Red					

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 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 Concrevice ranges - Repair materials

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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	3.0 mm
Specific weight UNI EN 1849 - 2	1.50 kg/m ²	1.80 kg/m ²	2.15 kg/m ²	2.40 kg/m ²	2.90 kg/m ²	3.65 kg/m ²
Tensile strength UNI EN 12311 - 2 (rectangular test specimen)	≥ 9.0 N/mm ²	≥ 9.0 N/mm ²	≥ 9.0 N/mm ²	≥ 9.0 N/mm ²	≥ 9.0 N/mm ²	≥ 9.0 N/mm ²
Elongation to break UNI EN 12311 - 2 (rectangular test specimen)	≥ 200%	≥ 200%	≥ 200%	≥ 200%	≥ 200%	≥ 200%
Tear resistance UNI EN 12310 - 2	≥ 110 N	≥ 135 N	≥ 160 N	≥ 170 N	≥ 200 N	≥ 250 N
Puncture resistance DIN 16726 - 5.12	≥ 450 mm	≥ 800 mm	≥ 900 mm	≥ 1000 mm	≥ 1500 mm	≥ 1700 mm
Cold bending UNI EN 495 - 5	≤ - 25°C	≤ - 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	waterproof
Dimensional stability after 6 hours at 80°C – UNI EN 1107 - 2	≤ ± 0.1%	≤ ± 0.1%	≤ ± 0.1%	≤ ± 0.1%	≤ ± 0.1%	≤ ± 0.1%
Root resistance DIN 4062	No penetration	No penetration	No penetration	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	≤ - 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	≥ 150 N/50 mm
Shear resistance of joints UNI EN 12317 - 2	Breaking out of joints	Breaking out of joints	Breaking out of joints	Breaking out of joints	Breaking out of joints	Breaking out of joints
Resistance to impact UNI EN 12691	20 mm	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	≥ 20 kg

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.

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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