



The Chemical Company

MASTERPREN[®] HE

(Formerly known as FLAGON CSL)

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.

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.

Imported & Marketed in India by:

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MASTERPREN[®] HE

Physical / Chemical Properties

Properties listed are only for guidance and are not a guarantee of performance

Thickness (mm) DIN 53353	1.5mm	2.0mm	2.2mm
Specific weight DIN 53479 (g/cm ³)	1.30 ± 2%	1.30 ± 2%	1.30 ± 2%
Tensile strength DIN EN ISO 527-01 (hourglass test tube)	≥ 17.5N/mm ²	≥ 17.5N/mm ²	≥ 17.5N/mm ²
Average production value	L20.2 T19.6	L20.2 T19.6	L20.2 T19.6
Standard deviation	L0.9 T0.5	L0.9 T0.5	L0.9 T0.5
Elongation to break DIN EN ISO 527-01 (hourglass test tube)	≥ 300%	≥ 300%	≥ 300%
Average production value	L336 T351	L336 T351	L336 T351
Standard deviation	L10 T12	L10 T12	L10 T12
Puncture resistance DIN 16726-5.12	≥450	≥800	≥1100
Cold bending DIN 53361	≤ -30°C	≤ -30°C	≤ -30°C
Hydrostatic pressure resistance (72 hours at 4 bar) DIN 16726-5.11	Waterproof	waterproof	Waterproof
Root resistance	No penetration	No penetration	No penetration
Resistance to tearing	≥ 80N/mm ²	≥ 80N/mm ²	≥ 80N/mm ²
Average production value	L120 T125	L120 T125	L120 T125
Standard deviation	L6 T5	L6 T5	L6 T5
Thermal ageing in air Mass loss after 56 days at 80°C DIN 16726-513.3	≥ 4%	≥ 4%	≥ 4%
Thermal ageing in water - mass variation after 28 days at 70°C DIN 16726-513.18	≥ 2%	≥ 2%	≥ 2%

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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Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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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