

MASTERPREN[®] 1000HA

Self adhesive, bituminous waterproofing membrane for topping with hot asphalt

DESCRIPTION

MASTERPREN 1000HA is a self adhesive, bituminous waterproofing membrane, protected by a tough polypropylene mesh to give excellent mechanical characteristics to the membrane.

MASTERPREN 1000HA has been designed to accept a hot asphalt wearing surface directly over the membrane.

RECOMMENDED FOR

MASTERPREN 1000HA is recommended for situations where the waterproofing membrane should withstand pouring of hot asphalt to accommodate vehicular traffic. Applications include:

- Bridge decks and via ducts
- Traffic decks, flyover decks and ramps
- Car parks
- Container yards

FEATURES AND BENEFITS

Impermeable	Protects substrate from the ingress of water and water borne salts.
Flexible	Bridges active cracks without rupturing.
Reinforced with Polypropylene	Withstands high mechanical stresses.
Self sealing	Retains waterproofing integrity even if accidentally punctured.
Self adhesive and cold applied	Easy to lay. Saves time and labour. Safe.

TYPICAL PERFORMANCE DATA

Elongation of membrane (ASTM D638)	Long. : 66% Tran. : 99%
Tensile strength (ASTM D638)	Long. : 710 N Tran. : 920 N
Adhesion to primed concrete (ASTM D1000)	4.9 N/mm
Adhesion to steel (ASTM D1000)	5.8N/mm
Puncture resistance (ASTM E154)	1214 N

PROPERTIES

Supply form	Sheets	
Backing (polypropylene)	Thickness	0.25 mm
Membrane thickness	Thickness	1.25 mm
	Colour	Black
Total thickness		1.50 mm
Cold flexibility (EN 1109)		<-40°C
Service temperature		-30° to 80°C
Maximum Asphalt application temperature		150°C

APPLICATION

Surface Preparation

Correct substrate preparation is critical for optimum performance.

Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminant. Cement laitance, mould release agent, curing membrane and other contaminants must be removed by wet grit blasting, high-pressure water blast, or such other effective methods.

Fill surface irregularities such as blow holes, honeycombs etc., with **EMACO NANOCRETE FC** repair mortar to achieve a smooth and level surface. Repair cracks either by resin injection or by caulking depending on the nature of cracks. Where needed provide expansion joints and seal them with **SONOLASTIC NP1** (see separate data sheet). Consult BASF Construction Chemicals for advice on repair methods.

Priming

Use **MASTERPREN 2000 Primer** or a similar bituminous primer. Apply the primer by brush or roller over the prepared substrate at a rate of 6-8 m² per litre. Lay the membrane after the primer reaches a touch dry state. Prime only an area that can be covered within the working day.

Placing

It is important to lay the membrane without creases. Peel back the release paper to a length of about 30 cm and stick the membrane onto the prepared substrate, starting preferably from one end of the area.

Unwind the roll in a straight line, without creasing by pulling the release paper carefully. Using a rubber roller, simultaneously smooth the membrane from the centre outwards to the edges for optimum adhesion and to expel any entrapped air. On sloping surfaces – e.g. ramps – lay the membrane across the slope and not along it.

Commence at the low point to overflash correctly subsequent sheets.

After one roll has been installed and smoothed, lay the next roll with at least 150 mm overlap at the ends and 100 mm along the edges. Ensure the total bonding at the overlap by using the roller.

Note: The detailing at external and internal corners and penetrations of pipes, cables, ducts, etc., must be carefully carried out before commencing application of horizontal sections of the membrane.

Where any opening is encountered on the substrate such as water drains, lay the membrane to cover it. Make a few cuts in the membrane area covering the drain hole, radially from the centre. Fold the segments thus formed inwards and stick them onto the inner face of the drain. Seal the edges of the drain opening.



The Chemical Company

MASTERPREN[®] 1000HA

At the corners between vertical and horizontal maintain an overlap of at least 100 mm. It is recommended that the horizontal area is first laid followed by the vertical, so that the vertical membrane laps over the horizontal one.

If the membrane has ballooned at a few spots after laying due to entrapped air or water, puncture the bubbles with a sharp needle. The pinholes will heal by themselves during the smoothing process.

Temporarily protect the membrane from mechanical damage during application using **SONOSHIELD Protection Board** or similar approved methods.

After completion, cover the membrane with an application of hot asphalt road surfacing.

ESTIMATING DATA

One roll of **MASTERPREN 1000HA** after deducting for the overlaps, covers an area of 19.7 m x 0.8 m i.e., coverage is approximately 15.76m² per roll. However, slightly higher consumption is possible while treating oddly shaped areas, or where too many joints are required.

PACKAGING

MASTERPREN 1000HA is supplied in rolls of 1 m wide and lengths of 20 m.

SHELF LIFE

MASTERPREN 1000HA can be stored in tightly sealed original packing for 12 months, when kept dry at temperatures between 5°C and 40°C.

PRECAUTIONS

Health: **MASTERPREN 1000HA** is a safe product to use. Handling of the product normally does not pose any risks of eye or skin irritation. Wash thoroughly after handling.

Fire: **MASTERPREN 1000HA** is flammable when exposed to naked flames.

Note: Seek advice from asphalt supplier as to the minimum thickness of asphalt that can be applied over **MASTERPREN 1000HA**, especially at locations of membrane overlap.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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