

# ARMOFLOOR MB4

## Two Component Elastomeric Polyurethane Membrane

### Description:

ARMOFLOOR MB4 is a high build elastomeric two component liquid applied waterproofing membrane based on Polyurethane resins. When cures, it create an impermeable membrane with excellent characteristics of elasticity, crack bridging and resistance against abrasion and chemicals. ARMOFLOOR MB4 is designed to be used where a flexible water proofing membrane is required as a part of an integrated system in a car park deck coating and water proofing system for multi store parking area.

ARMOFLOOR MB4 cures to form a highly dense seamless continuous monolithic membrane that has excellent adhesion to concrete substrates with high flexibility and high waterproofing features.

### Applications:

ARMOFLOOR MB4 can be applied as a water proofing membrane at:

- Intermediate layer in car parking flooring systems.
- Car park deck.
- Intermediate layer in docking areas, bays to provide flexibility.
- Intermediate layer in cold stores to accommodate for temperature change and act as water proofing membrane.

### Advantages:

- High build liquid applied membrane in single application
- Fast drying chemically cured product.
- High chemical and abrasion resistance.
- Elastomeric water proofing system after curing.
- Highly flexible to be applied where movement is expected.
- Crack bridging ability, waterproofing membrane in car park systems.

- Chemical resistant to detergents, cleaning materials, oil and grease.
- Provides superior wear and weather ability for parking deck and contaminating areas.

### Instructions for Use:

#### Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete surfaces are cured for at least 28 days with moisture content not exceeding 5%. . Apply Sand blasting or mechanical preparation means for the surface prior to application to ensure a proper mechanical grip for the surface, to ensure best adhesion of material.

After preparation, apply repair to all defected areas by applying LAVAREP and LAVAPOXY range of concrete repair. Let the repairing material cures before proceeding with the application. Consult with MATEX technical team for recommendation. In order to seal the substrate and to ensure a perfect bonding. Apply a rich coat of primer ARMOPRIME PU or ARMOPRIME EP100 to the surface in a spread rate of 4 to 6 m<sup>2</sup>/Lt. If greater adhesion is required, create a mechanical key between the substrate and the membrane by spreading quartz silica sand on to the primer while it is still wet. After it dries brush out the loose quartz and vacuum the surface to ensure complete cleaning.

#### Mixing:

ARMOFLOOR MB4 is a two component product. With a low speed mixer (200-300 rpm) stir the contents of Part A (base) for a minute, then add the contents of Part B (hardener) and mix slowly for 3-5 minutes till a homogenous mix is reached. Leave the mixed material for a period of 2 minutes to release entrapped air within the mix.

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## Application:

ARMOFLOOR MB4 can be applied with a roller, trowel, brush or spray machine. The mixed material is poured onto the primed surface and spread evenly with a notched trowel. Continuous spiking with a spiked roller is to be done to remove all entrapped air. Spiking adjacent layers is recommended to be done at 50% overlaps. Spiking shall stop as soon as the coating starts to set.

ARMOFLOOR MB4 is an intermediate layer in an epoxy or Polyurethane Multi-layer car park systems with waterproofing feature, it requires the application of a top coat of the ARMOFLOOR Epoxy or polyurethane range. For internal covered application ARMOFLOOR PU150 is recommended as top coat as where ARMOFLOOR UVR should be used for external exposed areas. Allow the coating to cure for 7 days after which it can be subjected to heavy traffic.

## Standards:

ARMOFLOOR MB4 conforms to:

- ASTM D2240, ASTM C836, ASTM C 501, ASTM D412, ASTM D624, ASTM D412, and ASTM C836

## Coverage:

ARMOFLOOR MB4 achieves coverage of 2.0 m<sup>2</sup> per liter @ 500 micron dry film thickness.

## Packaging:

ARMOFLOOR MB4 is available in a set of 4 and 15 liter supplied in metallic dual pack.

## Storage:

Store in original packing in dry conditions away from direct sunlight and in a temperature controlled warehouse. Stored at +15°C to 25°C

## Shelf Life:

ARMOFLOOR MB4 can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

TECHNICAL PROPERTIES	
Color	: Neutral
Density	: 1.45 gr/cm <sup>3</sup>
Pot life	: 40 minutes @ 20°C
Solid Contents	: 100%
Touch Dry	: 6 hours
Full Dry	: 3 days
Water vapor transmission	: 0.3 g/h/m <sup>2</sup>
Adhesion to concrete	: 2.0 N/mm <sup>2</sup>
Shore A hardness	: 50
Crack bridging	: Passes 2.0 mm
Tensile strength	: 5.0 N / mm <sup>2</sup>
Elongation at Break	: 300 %
Tear Resistance	: 18 N / mm
Water penetration	: NIL
Chemical Properties:	:
Acidic solutions	Resistant
Alkali solutions	Resistant
Sea, brackish water	Resistant
Oil and grease	Resistant
Detergents	Resistant
Thinners and solvents	Moderate Resistance
Complete Curing	: 7 days
Application Temp.	: +5°C to +40°C
Service Resistance	: -5°C to +80°C

## Cleaning:

Clean all tools with MATEX SOLVENT before product hardens.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

