

MAPEPROOF LIQUID MEMBRANE

Two-component polyurethane liquid waterproofing membrane for sealing, detailing and repairing Mapeproof AL membranes (before pouring concrete), and Mapethene HT/LT, Mapeproof SA and Mapeproof AL 1200 AP membranes (after pouring concrete)



DESCRIPTION

Mapeproof Liquid Membrane is a two-component, thixotropic, solvent-free, hand-applied (trowel grade), able to bond to and seal a variety of materials used in the building industry such as: HDPE (use **Primer P** or **Primer P2**), concrete, cement masonry, steel rebars, specially designed for waterproofing **Mapeproof AL**, **Mapethene HT/LT**, **Mapeproof SA** and **Mapeproof AL 1200 AP** systems in case of: sheet discontinuities, penetrations, corners, details.

WHERE TO USE

- Foundation slab - fillet and reinforcement material at inside/outside corners.
- Pile caps - continuity with **Mapeproof AL** sheet membrane.
- Vertical walls - sealing of membrane terminations, reparations of HDPE membranes (**Mapeproof AL**, **Mapethene HT**, **Mapethene LT**, **Mapeproof SA** and **Mapeproof AL 1200 AP**).
- Diaphragm walls - sealing around: rods, anchors, tube penetrations, and any detailing areas.

TECHNICAL CHARACTERISTICS

Mapeproof Liquid Membrane, thanks to the new formulation developed at MAPEI laboratories, can accomplish different waterproofing requirements. The product is a high-performance waterproofing membrane intended to form a continuous and flexible outer layer to prevent the ingress and migration of water and moisture in the most critical areas of the **Mapeproof AL** waterproofing system.

Mapeproof Liquid Membrane is resistant to bad weather and deformability due to compression, with good tensile and shear strength.

RECOMMENDATIONS

- Do not use on dusty and flaky surfaces.
- Do not expose permanently to UV.
- Do not use on surfaces that are moist to the touch or wet.
- Do not apply on green concrete surface (concrete must be dried > 7 days).
- Do not use on surfaces which are contaminated by oil, grease, release agents.
- Do not use on bituminous surfaces where bleeding of oil can occur.
- Do not mix the components (A+B) partially.

APPLICATION PROCEDURE

All surfaces to be sealed must be dry, sound and free of dust, loose areas, oil, grease, wax and oil paint.

Preparation and application

Mapeproof Liquid Membrane is provided in a plastic single drum containing components A and B. Homogenise the single components, pour component B (smaller one) into component A, mix with a drill with low rotation speed (approximately 1 minute at 150 rpm maximum and use mixing paddle of 5 cm of diameter) without entraining air, avoid partial mixing since it couldn't guarantee the correct ratio between resin and hardener; immediately after mixing the two components, apply and pour the product directly from the drum into the joint with a metallic trowel.

After the application of **Mapeproof Liquid Membrane**, wait at least 24 hours before putting it in contact with water.

CONSUMPTION

1.2 kg/m²/mm (average consumption on smooth concrete surfaces).

For **Mapeproof AL**, **Mapethene HT/LT**, **Mapeproof SA** and **Mapeproof AL 1200 AP** system details:
Minimum thickness: 2.5 mm.

CLEANING

Mapeproof Liquid Membrane can be removed from surfaces, tools, clothing, with toluene or alcohol before the hardening reaction takes place. After hardening it may be only removed mechanically or with **Pulicol 2000**.

PACKAGING

Mapeproof Liquid Membrane is supplied in 3.5 kg A+B units.

STORAGE

Mapeproof Liquid Membrane may be stored for 12 months in a cool, dry place. Component B must be kept at more than +5°C. At lower temperatures it tends to crystallise.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

When the product reacts, it generates considerable heat (or low amount, depending on the product). After mixing components A and B, we recommend applying the product as soon as possible and never leaving the container unattended until it is completely empty.

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY



	component A	component B
Consistency:	thixotropic paste	liquid
Colour:	light blue	amber yellow
Density:	1.2 g/cm ³	1.1 g/cm ³
Brookfield viscosity:	1,000,000 mPa·s (rotor H #F - rpm 5)	975 mPa·s (rotor 3 - rpm 50)

APPLICATION DATA (at +23°C and 50% R.H.)

Mixing ratio:	comp. A : comp. B = 100 : 25
Colour of mixed product:	light blue
Consistency of mix:	thick thixotropic paste
Density of mix:	1.15 g/cm ³
Brookfield viscosity of mix:	200,000 mPa·s (rotore RV #7 – rpm 10)
Workability time:	60 min
Application temperature range:	da +5°C a +35°C
Dust dry:	24 ore
Complete hardening:	7 giorni

FINAL PERFORMANCE (2 mm thickness)

Tensile strength (ISO 37):	3.5 N/mm ²
Elongation at failure (ISO 37):	440%
Tear strength (ISO 34-1):	20 N/mm
Shore A hardness (DIN 53505):	40
Bond strength to concrete (EN 1542):	2 N/mm ²

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

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