

EUCOPROOF MB PA

POST-APPLIED, SPECIALLY COATED, FLEXIBLE WATERPROOFING MEMBRANE

FIELD OF APPLICATION

EUCOPROOF MB PA is a 2-layer, very flexible tanking membrane. The membrane is applied after the concrete is poured and cured, cold, without heat or open flame. It can be welded if required. It consists of a synthetic membrane coated with a very special alkali-resistant pressure-sensitive adhesive. The adhesive is protected with a silicone film which must be removed before application. This special design offers very high safety against water penetration. Its flexible adhesion onto concrete makes it a permanent waterproofing membrane. Very high adhesion onto concrete. The membrane is provided on one side with a self-adhesive strip for lateral overlap and ensures perfect adhesion between the different membrane rolls. The application must be done after the concrete has cured. These membranes are used to waterproof basement walls, foundations, tunnels, floor slabs, etc. and are suitable for both vertical and horizontal surfaces. It can be used against water under pressure and against radon gas infiltration.

BENEFITS & FEATURES

- Flexible adhesion to concrete.
- Highly flexible
- Self-adhesive coating
- Continuous thickness
- Waterproof against water under pressure
- Chemically resistant
- Methane gas barrier
- Radon gas barrier
- UV resistant for >60 days
- Strong crack bridging
- High elongation
- Not harmful to ground water

APPLICATION

Application conditions

The recommended application temperature is between +5°C and +40°C.

Tools & complementary products

- EUCOPROOF MB TAPE HDPE
- EUCOPROOF MB TAPE R
- Sharp knife
- Scissors
- Pressure roller large: 5 to 10 cm
- Pressure roller small: 2- 3 cm
- Aluminium rod - to cut the rolls precisely

Preparations

The substrate must be solid, even, stable and clean. The surface to be coated must not have any damages, cracks, joints or cavities larger than 10 mm. In order to prevent movement of pipe and cable ducts during installation, they must be fixed in place.

Damaged concrete shall first be renovated with EUCOPROOF MORTAR THIX or other EUCCHEM repair mortars. Sharp edges should be removed.

Application of the product

EUCOPROOF MB PA is to be glued with the self-adhesive coating onto the surface. Remove the siliconised protective film before bonding.

Longitudinal overlap:

The overlap between the membranes is 75 mm. Before removing the siliconised PE foil (from the side overlap area), ensure that the overlap area of the membranes is correctly positioned. Make sure the back side of each subsequent roll is clean before attaching and overlapping it. Then start to apply the siliconised PE foil to adhere the membranes together. Use a pressure roller on the overlap area to ensure complete perfect adhesion between the membranes. Then proceed with the removal of the plastic foil and press the membranes further together and onto the surface..

Connect end of roll with beginning of new roll:

Use the EUCOPROOF MB TAPE HDPE. Roll width of the HDPE tape is 150 mm. Remove the first part of the tape protective film. Place the adhesive part of the tape over the edge of the membrane so that the first half of the tape adheres 75 mm to the EUCOPROOF MB PA membrane and press firmly with the pressure roller. Make sure the back side of each subsequent roll is clean before attaching and connecting it. Then carefully and tightly place the next membrane under the second half of the HDPE tape. Then remove the second part of the protective film from the tape and press everything together well. Roll over with the pressure roller. This creates a flat transition between the ends of two rolls of membrane.

All details, e.g. Around pipes, shall be made extra watertight with EUCOPROOF MS T, a liquid applied elastic membrane. For better adhesion to HDPE, a pretreatment with EUCOPROOF MB TAPE R is recommended.

Repairs:

In case of damage to EUCOPROOF MB PA (e.g. during formwork installation, placement of reinforcing steel, etc) it is absolutely necessary to repair it. EUCOPROOF MB TAPE HDPE be used to repair cuts, cracks, holes <10 mm, ... For larger repairs, cut a sufficiently large area from a new roll of EUCOPROOF MB PA to fit over the area to be repaired. Make sure that the area overlaps at least 150 mm of the damaged area. Then glue the repair surface over the damaged area according to the recommended cutting edge details.

Finishing

Does not apply.

Cleaning of the tools

Does not apply.

MAINTENANCE AFTER APPLICATION

Does not apply.

TECHNICAL DATA

Consumption

Take into account an overlap of 75 mm.

Technical data & reaction times

Membrane:

1st layer: Base layer - flexible synthetic membrane.

2nd layer: Pressure sensitive polymer resin

Colour White

Weight Approx. 1.4 kg/m²
 Thickness: Approx. 1.2 mm
 Roll length: 20 m
 Roll width: 1050 mm

Property	Value	Harmonised technical specifications
Visual defects	Passed	EN 1850-2
Dimensions and deviations	Length: 20 m +/- 0.10 m Width: 1050 mm +/- 5mm Flatness: Passed	EN 1848-2
Thickness and zone density	Thickness membrane with coating: 1.2 mm (+10/-5%) Zone density: 1400 g/m ² +/- 10%	EN 1849-2
Watertightness: Water pressure 60 kPa (0.6 bar)	Passed	EN 1928-A
Watertightness: Water pressure 400 kPa (4 bar)	Passed	EN 1928-B
Impact resistance Substrate Al-board	400 mm	EN 12691-A
Impact resistance Substrate EPS-board	800 mm	EN 12691-B
Durability - against ageing due to heat	Passed	EN 1296 & EN 1928-A
Durability - against chemical substances	Passed	EN 1847 & EN 1928-A
Compatible with bitumen	Passed	EN 1548 & EN 1928-A
Tear resistance - longitudinal (nail shank)	>500N	EN 12310-1
Tear resistance - transversal (nail shank)	>650N	EN 12310-1
Resistance static load Substrate EPS board	≤ 15 kg	EN 12730-A
Resistance static load Substrate concrete	≤ 20 kg	EN 12730-B
Resistance static load Substrate EPS board	≤ 15 kg	EN 12730-C
Tensile strength - longitudinal	≥ 120N / 6 mm	EN 12311-2
Tensile strength - transversal	≥ 140N / 6 mm	EN 12311-2
Tensile strength - longitudinal	≥ 13N / 6 mm	EN 12311-2
Tensile strength - transversal	≥ 14N / 6 mm	EN 12311-2
Elongation at break - transversal	≥ 650%	EN 12311-2:2013
Elongation at break - longitudinal	≥ 500%	EN 12311-2:2013
Reaction to fire	Class E	EN 13501-1

Peel strength of poured concrete (N/mm²)
 Clean surface: ≥ 1.5
 All data are laboratory values.

Chemical resistances

Good chemical resistance. When used in applications with chemically polluted water, please contact EUCOCHEM BV.

Additional documentation & referrals

Always consult all technical data sheets of the products to be used. Always work with clean tools in good condition.

APPEARANCE - COMPOSITION - PACKAGING

EUCOPROOF MB PA is available on a roll:
 Length: 20 m
 Width 1050 mm

Storage takes place in a dry room between +5°C and +40°C; the product had an unlimited shelf life if stored in the unopened packaging under the conditions described above.

ADDITIONAL COMMENTS

For special applications it is advisable to consult EUCOCHEM.

SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at www.eucochem.com. When in doubt, contact our technical service.

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