

MAPEPROOF ONE COAT

Two-component, single-coat epoxy surface damp proof membrane for controlling residual, static and construction moisture in cementitious substrates

WHERE TO USE

For use on cementitious sub floors with residual, static or construction moisture levels of above 75% (BS8203) and below 97% relative humidity on sub floors with an effective structural damp proof membrane prior to the installation of resilient floor coverings for resilient, textile and wood flooring finishes.

Mapeproof One Coat can be used with underfloor heating systems providing the system has been fully commissioned as per BS8203 2009, Section 3, 3.11 Protection against heat, and BS 8204 Part 1 2003, Section 6.4.6. heated levelling screeds. **Mapeproof One Coat** is not recommended for heated sub floors where wood floor coverings are to be installed.

Some application examples

- Apply over mechanically prepared power floated concrete sub floors that incorporate an effective structural dpm, to control residual or constructional moisture.
- Apply over sand/cement screeds that are laid over an effective moisture barrier to control residual or constructional moisture

TECHNICAL CHARACTERISTICS

Mapeproof One Coat is a two-component epoxy product that cures by mixing the two-components before applying to the prepared and surface dry sub floor.

Mapeproof One Coat should be applied ensuring that it is well worked in to the substrate so that complete coverage is achieved. When applying to porous surfaces it is essential that the finished product must be free of any pin holing.

If applying **Mapeproof One Coat** to a power floated concrete slab, it must be mechanically prepared by shot blasting or diamond grinding to remove the surface and expose the pores to ensure the product is allowed to penetrate the surface of the sub floor.

RECOMMENDATIONS

- Do not use below solid wood flooring.
- Do not dilute **Mapeproof One Coat** with water or solvent.
- Do not apply **Mapeproof One Coat** on wet surfaces, or where there is rising damp.
- Do not cover part used tins of **Mapeproof One Coat** after mixing.

APPLICATION PROCEDURE

Preparation of the Substrate

The sub floor must be clean, sound, surface dry and free from laitance, oil, water, wax, dust, curing agents, and any form of contamination. New screeds should be allowed to cure for a period of more than 28 days prior to being tested as per BS8203 to establish the residual moisture content, rapid drying screeds must be cured according to the manufacturer's instructions for each particular product.

Application of the Product

Mapeproof One Coat Part A and Part B may have soft sedimentation in the bottom and are easily re-dispersible by mixing. Mix Part A and Part B separately to make the products homogeneous before decanting Part B in to Part A, ensuring that all of Part B is introduced to the Part A. Mix the 2 components completely and accurately for 1-3 minutes with a slow-speed paddle mixer until a uniform mix is obtained, taking care not to over mix and overheat the 2 components.

- Where the substrate is profiled or uneven, it can be pre-smoothed with **Mapei Latexplan**, or **Latexplan Trade**.
- Cracks and surface crazing must be opened, cleaned and then repaired with **Eporip** or **Eporip Turbo**.
- Apply **Mapeproof One Coat** with an A2 notched trowel and roll at right angles with a short pile paint roller.
- If the applied **Mapeproof One Coat** is left for more than 18 hours, prime the cured **Mapeproof One Coat** with **Mapeprim SP**, **Eco Prim T** or **Eco Prim Grip** prior to the application of a **Mapei Latex Levelling Compound**.
- For all Mapei water-mixed levelling compounds, prime the cured **Mapeproof One Coat** with **Mapeprim SP**, **Eco Prim T** or **Eco Prim Grip** before applying the levelling compound.

Caution: Epoxy products can become very hot in the bucket after mixing. Therefore mix only in metal containers, and after mixing apply immediately to the floor. After mixing and applying move the containers outdoors to complete the reaction.

Cleaning

Mapeproof One-Coat can be removed from clothing and tools while still fresh using ethyl alcohol.

CONSUMPTION

430-440 g/m². 16 m² per 7 kg unit.

PACKAGING

Part A: Metal container: 4.2 kg. Part B: Plastic container: 2.8 kg.

STORAGE

12 months in its original, well sealed container stored under normal conditions.
Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeproof One Coat is harmful if inhaled, and irritates the eyes and respiratory tract when presented in aerosol form. It may also cause localised rashes if it comes into contact repeatedly with the skin in those who are allergic. Use protective clothing, gloves and goggles. If the product comes into contact with the eyes, wash well with plenty of clean water and seek medical attention.

Only apply the product in well-ventilated areas and/or use a suitable protective mask to protect against inhaling whenever a mist is caused by the application system.

Mapeproof One Coat part A is hazardous for aquatic life; do not dispose of the product in the environment. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	Part A : black 4.2 kg Part B: beige 2.8 kg
Density (g/cm ³):	Part A : 1,40 approx. Part B: 1,35 approx.
Massa volumica (g/cm ³):	1,1
Maximum permissible residual humidity for waterproofing:	97% RH
Brookfield Viscosity (mPa·s):	Part A : 6000 approx. Part B: 4000
Dry solids content (%):	100
APPLICATION DATA	
Mixing ratio:	60:40 by weight
Consistency of mix:	liquid
Colour:	black
Brookfield Viscosity (mPa·s):	4500 approx.
Application temperature range:	+10°C/+30°C
Working time at +23°C	approximately 30 minutes

Pot life at +23°C	approximately 30 mins
Loss of track at +23°C	after approximately 3 hours
Set to light foot traffic at +23°C	after approximately 5 hours
Workability:	20-30 minutes approx..
FINAL PERFORMANCES	
Final Hardening Time at +23°C:	24 hours
Adhesion to concrete (MPa):	> 4 (with concrete failure)
Temperature when in use:	-20°C/+80°C

N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.

End users should ensure that our latest product data and safety information sheets have been consulted prior to use.

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

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