MAPEPROOF ONE COAT

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

WHERE TO USE

For use on cementitious sub floors and Calcium Sulphate/Anhydrite based screeds with residual, static or construction moisture levels of above 75% (BS8203) and below 97% (Cementitious) and 90% (Calcium Sulphate/Anhydrite) R.H. 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 (cementitious substrates only) 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.
- Apply over Calcium Sulphate/Anhydrite screeds laid over an effective moisture barrier to control residual or constructional moisture up to 90% RH.

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 is free from 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 in presence of rising damp.
- Do not cover partly 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 cementitious substrate is profiled or uneven, it can be pre-smoothed with **Mapei Latexplan Trade, Latexplan Trade Fast and Latexplan No Ammonia**. Calcium Sulphate/Anhydrite screeds must not be pre smoothed prior to application of the **Mapeproof One Coat.**
- 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 **Eco Prim T Plus** or **Eco Prim Grip Plus** prior to the application of a **Mapei Latex Levelling Compound**.
- For all Mapei water-mixed levelling compounds, prime the cured **Mapeproof One Coat** with **Eco Prim T Plus** or **Eco Prim Grip Plus** before applying the levelling compound.

APPLICATION ON CALCIUM SULPHATE BASED SCREEDS

For calcium sulphate/anhydrite screeds that are measured between 75% - 90% RH by the flooring contractor, **Mapeproof One Coat** may be used if;

1. The screed manufacturer agrees that their screed can receive an epoxy DPM.
2. The sub-floor contains an effective damp proof membrane, and that any moisture remaining is from the construction process and not from rising moisture from the ground.
3. The screed has been down for >28 days and has a surface tensile strength of at least 1.0 N/mm2.
4. The moisture content measured is <90% RH.
5. There is no underfloor heating in place.
6. No timber flooring is to be bonded to it.

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: Metal 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

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.co.uk.

When the product reacts it generates low amount of heat. 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.
PRODUCT 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/cm³):	Part A : 1,40 approx. Part B: 1,35 approx.
Mass volume (g/cm³):	1,1
Maximum permissible residual humidity for waterproofing:	90% R.H. (Calcium Sulphate/Anhydrite) 97% R.H. (Cementitious)
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.co.uk

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