

MAPEPROOF 1K TURBO

One component, solvent free, moisture curing and rapid drying polyurethane surface membrane with very low emission of volatile organic compounds



WHERE TO USE

On cementitious screeds, which are not subject to rising damp, but have a residual humidity content higher than the British Standards recommended 75% R.H. (BS8203) for laying resilient and wood flooring.

Some application examples

- Consolidating cementitious screeds which are mechanically weak.
- Prior to laying wooden flooring, to prevent a failure due to excessive residual moisture in the cementitious screed.

TECHNICAL CHARACTERISTICS

Mapeproof 1K Turbo is a one-component polyurethane primer which hardens due to the humidity present in the surrounding air and in the screed.

Mapeproof 1K Turbo is characterised by its short set to light foot traffic period and that it quickly loses tackiness, so that wood flooring may be laid after a very short time (after approximately 2 hours in normal conditions of temperature and humidity).

Mapeproof 1K Turbo does not contain solvents, is odourless and is non-flammable.

Mapeproof 1K Turbo has a very low emission level of volatile organic compounds (EMICODE EC1 Plus).

Because of the total absence of solvents and odour, **Mapeproof 1K Turbo** may also be used on sites which are located close to inhabited areas (such as flats, schools, offices, etc.). After application and rapid curing of the resin, the substrate treated with **Mapeproof 1K Turbo** becomes more consistent, harder and is resistant to abrasion.

RECOMMENDATIONS

- Do not dilute **Mapeproof 1K Turbo** with water or solvent.
- Do not apply below +5°C.
- Do not apply **Mapeproof 1K Turbo** on wet surfaces or in the presence of rising damp.
- If a smoothing and levelling compound has to be applied, or if the wood is to be laid after more than 24 hours, apply **Mapeproof 1K Turbo** so that a thin layer remains on the surface. Completely saturate this layer with Quartz 1.2 while it is still fresh.
- Do not apply **Mapeproof 1K Turbo** onto heated screeds as a vapour membrane. It is suitable as consolidator only.

- Do not apply **Mapeproof 1K Turbo** so that it puddles on the surface of the substrate.
- The installation of wooden flooring on substrates treated with **Mapeproof 1K Turbo** must be carried out using a reactive polyurethane adhesive (such as **Ultrabond P990 1K** or **Ultrabond Eco P992 1K**), an epoxy-polyurethane adhesive (such as **Lignobond** or **Ultrabond P902 2K**) or a sililated-based adhesive (such as **Ultrabond Eco S955 1K**).

APPLICATION PROCEDURE

Preparation of the substrate

The screed must be clean and free of oil, wax and dirt. Traditional screeds must be cured for at least 7-10 days per centimetre of thickness, while quick-drying or rapid-drying screeds must be cured according to the manufacturer's instructions for each particular product.

Cracks and surface crazing must be opened and then repaired with **Eporip** or **Eporip Turbo**.

If used for consolidating purposes, make sure that the porosity of the surface is sufficient to allow **Mapeproof 1K Turbo** to penetrate.

If the screed is excessively dense, the surface must be abraded in order to open the pores.

Application of the product

Apply **Mapeproof 1K Turbo** with a roller, a brush or flat trowel. On porous substrates, a single coat of the product is usually enough to obtain a good waterproofing and consolidating effect.

For more porous substrates, or substrates in poor condition, a second layer should be applied when the first is suitable to light foot traffic.

If the substrate needs to be rectified with a cementitious smoothing and levelling compound, apply a coat of **Mapeproof 1K Turbo**. Make sure there is a thin layer on the surface, and while it is still fresh, apply **Quartz 1.2** until it is completely blinded.

Once the **Mapeproof 1K Turbo** has dried, prior to the application of smoothing compounds a primer must be applied.

Eco Prim T Plus is suitable. Once the primer has dried, apply the cementitious smoothing compound.

If the parquet is to be laid directly after 24 hours, prepare the substrate with the **Quartz 1.2**, as described above to provide a key for the cementitious smoothing and levelling compound.

As an alternative, it may be laid directly on the primer after at least 2 hours and after no more than 24 hours of its application using a reactive adhesive (such as **Ultrabond P990 1K**, **Ultrabond Eco P992 1K**, **Ultrabond P902 2K** or **Ultrabond Eco S955 1K**).

Cleaning

Mapeproof 1K Turbo may be removed from clothing and tools while still fresh using **Thinner PU** or **Cleaner L**. Once set, it may only be removed using **Pulicol 2000**.

CONSUMPTION

0.2-0.4 kg/m² per coat.

PACKAGING

The product is available in 10 kg drums.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeproof 1K Turbo is irritant for the eyes, skin and the respiratory tracks. It may cause irreversible damages if used for lengthy periods and frequent contact with the skin may cause an allergic reaction in those subjects sensitive to isocyanates. If the product is used for lengthy periods with temperatures higher than +60°C component B may become harmful and sensitizing if inhaled. In case of sickness, seek medical attention. When applying the product, use protective



cloths, gloves and goggles, protect the respiratory tracks wearing the mask and work in well ventilated areas. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

| TECHNICAL DATA (typical values) | |
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| PRODUCT IDENTITY | |
| Consistency: | liquid |
| Colour: | brown |
| Density (g/cm ³): | 1.20 |
| Maximum residual humidity permitted: | 5%, measured with carbide hygrometer (for screeds thicknesses of approx. 6 cm) |
| Brookfield viscosity (at +23°C) (mPa·s): | 300 (# 1 - 10 rpm) |
| Dry solids content (%): | 100 |
| EMICODE: | EC1 R Plus - extremely low emission level |
| APPLICATION DATA (+23°C-50% R.H.) | |
| Application temperature range: | from +5°C to +35°C |
| Loss of stickiness: | after 30-40 minutes |
| Set to light foot traffic: | 60 minutes |
| Final hardening time: | after 2 hours |
| Waiting time between each coat: | minimum 40 minutes, max. 2 hours |
| Waiting time before laying directly with adhesive: | minimum 2 hours, maximum 24 hours |
| Minimum waiting time before successive treatments on final coat (blinded with Quartz 1.2): | min. 2 hours |

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

LEGAL NOTICE

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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