WHERE TO USE
Moisture vapour barrier for cement-based substrates that are not subject to rising damp, but have a residual humidity content higher than the Australian Standard 75% RH up to 95% RH (ASTM F2170 as per AS1884-2012).

Some application examples
• Consolidating cement-based substrates that are mechanically weak
• Moisture vapour barrier treatment prior to the installation of PVC, vinyl and timber flooring, to prevent a failure due to excessive residual humidity in the substrate

TECHNICAL CHARACTERISTICS
Mapeproof 1K Turbo is a one-component polyurethane primer that hardens due to the humidity present in the surrounding air and in the substrate.

Mapeproof 1K Turbo is characterised by its short set to light foot traffic period and that it quickly loses tackiness allowing timber and resilient flooring to be laid after a very short time (approximately 2 hours in normal conditions relating to both 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 and can contribute points towards Green Star credits.

Due to the absence of solvents and any strong odour, Mapeproof 1K Turbo may also be used on sites which are located close to inhabited areas such as apartments, schools, hospitals, 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 solvents
• 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, apply Mapeproof 1K Turbo so that a thin layer remains on the surface. Apply Eco Prim T Plus undiluted when dry
• DO NOT apply Mapeproof 1K Turbo on to heated screeds as a vapour membrane. It is suitable as a consolidator only
• DO NOT apply Mapeproof 1K Turbo so that it puddles on the surface of the substrate
• For subsequent levelling applications over 10 mm in thickness and to ensure a good bonding of levelling compounds or adhesives over the surface treated with Mapeproof 1K Turbo, sprinkle a layer of Quartz 1.2 or clean, dry sand of the right size on the product while it is still fresh. Once Mapeproof 1K Turbo has set, any remaining loose sand must be removed prior to further application.
• Direct timber flooring installations on substrates treated with Mapeproof 1K Turbo must be carried out using a reactive polyurethane adhesives such as Ultrabond P990 1K or Ultrabond Eco S955 1K
TECHNICAL DATA (typical values)

<table>
<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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<tbody>
<tr>
<td>Consistency:</td>
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<tr>
<td>Colour:</td>
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<tr>
<td>Density (g/cm³):</td>
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<tr>
<td>Maximum residual relative humidity permitted:</td>
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<tr>
<td>Brookfield viscosity (at +23°C) (mPa-s):</td>
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<tr>
<td>Dry solids content (%):</td>
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<td>EMICODE:</td>
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APPLICATION DATA (+23°C - 50% R.H.)

| Application temperature range:            | from +5°C to +35°C          |
| Loss of Tack:                             | 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, maximum 2 hours |
| Waiting time before laying directly with polyurethane or epoxy-polyurethane adhesive: | minimum 2 hours, maximum 24 hours |
| Waiting time before laying with water based adhesive (Eco-Tack): | minimum 2 hours, maximum 24 hours |
| Minimum waiting time before successive treatments on final coat saturated with sand: | minimum 2 hours |

- Use Ultrabond Eco MS 4 LVT and Ultrabond Eco MS 4 LVT Wall adhesive when installing PVC or vinyl flooring directly over Mapeproof 1K Turbo

APPLICATION PROCEDURE

Preparation of the substrate
The substrate must be clean and free of oil, wax and dirt. New concrete substrates must be cured for at least 28 days. Cracks and surface crazing must be opened and then repaired using Eporip.

Any existing curing compounds, laitance and contaminants must be mechanically removed as per AS1884-2012.

If used for consolidating purposes, make sure that the porosity of the surface is sufficient to allow Mapeproof 1K Turbo to penetrate. If the substrate is excessively smooth, the surface must be abraded in order to open up the pores.

For direct application without mechanical profiling, the surface must be porous, concrete surface profile (CSP) of #2 to #3, and be in pristine condition with no contamination present. If these conditions are not present before the application of Mapeproof 1K Turbo the surface must be mechanically profiled using dustless, engineer-approved methods to obtain a CSP of #2 to #3.

Application of the product
Apply Mapeproof 1K Turbo with a roller, brush or flat trowel. One coat can be sufficient over concrete substrates providing there is a continuous dry film.

For more porous substrates (such as screeds), or substrates in poor condition, a second layer should be applied when the first coat is suitable for light foot traffic.

If the substrate needs to be rectified, or a water based adhesive is to be used, a
SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeproof 1K Turbo is irritant for the eyes, the skin and the respiratory tracks. It may cause irreversible damage 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 with temperatures higher than +60°C component B may become harmful and sensitive if inhaled. In case of sickness, seek medical attention.

When applying the product, use protective clothing, gloves and goggles, protecting the respiratory tracks wearing a mask and working 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 our latest version of the Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE

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 web site www.mapei.com.au

CONSUMPTION

0.2-0.4 kg/m² per coat.

PACKAGING

10kg drums.

STORAGE

12 months in the original, well-sealed drum stored in a dry, elevated area. Protect from sunlight and frost.

Cleaning

Mapeproof 1K Turbo may be removed from clothing and tools while still fresh using warm water and detergent. Once set you can use thinners and/or mechanical means to remove.

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Our Commitment To The Environment

MAPEI products contribute valuable points towards Green Star™ certified projects, in compliance with the Green Building Council of Australia.

This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlege- und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

Minimum 3mm cementitious smoothing and levelling compound must be applied over Mapeproof 1K Turbo. Allow approximately 2 hours for the Mapeproof 1K Turbo to dry and then apply an undiluted coat of Eco Prim T Plus before applying a suitable levelling compound from the MAPEI range.

Resilient flooring installations can be directly bonded to Mapeproof 1K Turbo using Ultrabond Eco MS 4 LVT and Ultrabond Eco MS 4 LVT Wall.

Timber flooring may be installed directly to Mapeproof 1K Turbo with a reactive adhesive such as Ultrabond P990 1K or Ultrabond Eco S955 1K after at least 2 hours and after no more than 24 hours of its application.

If the timber flooring is to be installed after 24 hours of application it must be protected from contaminants that will affect adhesion. Thoroughly clean before applying the adhesive.

For expansion, movement and isolation joint treatment

See the following diagram.

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