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 P2170 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 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 undiluted when dry
• DO NOT apply Mapeproof 1K Turbo on to 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
• 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
• Use Adesilex G19 adhesive when installing PVC or vinyl flooring directly over Mapeproof 1K Turbo
### TECHNICAL DATA (typical values)

<table>
<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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<tbody>
<tr>
<td>Consistency:</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour:</td>
<td>brown</td>
</tr>
<tr>
<td>Density (g/cm³):</td>
<td>1.20</td>
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<tr>
<td>Maximum residual relative humidity permitted:</td>
<td>1-coat up to 92% R.H. - 2-coats up to 97% R.H.</td>
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<tr>
<td>Brookfield viscosity (at +23°C) (mPa·s):</td>
<td>300 (# 1 - 10 rpm)</td>
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<tr>
<td>Dry solids content (%):</td>
<td>100</td>
</tr>
<tr>
<td>EMICODE:</td>
<td>EC1 R Plus - extremely low emission level</td>
</tr>
</tbody>
</table>

### 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 (blinded with sand): | minimum 2 hours |

### 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.

#### Application of the product
Apply Mapeproof 1K Turbo with a roller, 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 coat is suitable for light foot traffic.

If the substrate needs to be rectified, or a water based adhesive is to be used, a minimum 3mm cementitious smoothing and levelling compound must be applied over the coat of Mapeproof 1K Turbo. Allow approximately 2 hours for the Mapeproof 1K Turbo to dry and then apply either an undiluted coat of Eco Prim T or Eco Prim Grip before applying a suitable levelling compound from the Mapei range.

Resilient flooring installations can be directly bonded to Mapeproof 1K Turbo using Adesilex G19.
As an alternative, the timber flooring may be installed directly on the primer after at least 2 hours and after no more than 24 hours of its application if using a reactive adhesive such as Ultrabond P990 1K or Ultrabond Eco S955 1K.

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.

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.

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.

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

All relevant references for the product are available upon request and from www.mapei.com.au

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 Wärmeisolierstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.