

# SYSTEM FOR THE INSTALLATION OF ENGINEERED TIMBER FLOORING OVER ACOUSTIC MATTING ON A CONCRETE SUBSTRATE

this system makes it possible  
to obtain **GREEN STAR™** credits



T03



							
concrete substrate properly prepared	moisture vapour barrier <b>Mapeproof 1K Turbo</b>	primer <b>Eco Prim T Plus</b>	self-levelling compound <b>Ultraplan</b>	acoustic underlay adhesive <b>Ultrabond Eco V4 SP</b>	acoustic underlay	timber adhesive <b>Ultrabond Eco S955</b>	pre-finished engineered timber flooring

1

2

3

4

5

6

7

8

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

## PART 1 SYSTEM

### 1.1 REFERENCES

**A. MAPEI Technical Notebook(s):**

1. [Floor Covering Installation Systems – Substrate Preparation](#)

**B. Other References:**

1. Australasian Timber Flooring Association (ATFA)

### 1.2 CONCRETE SUBSTRATE PREPARATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

### 1.3 MOISTURE VAPOUR BARRIER

- **NOTE:** Prior to the application of the moisture vapour barrier (MVB), relative humidity (R.H.) readings must be carried out in accordance with ASTM F2170.

**A. [MAPEPROOF 1K TURBO](#) (2918-02-2018 AUS) <95% RH, 28 day old concrete**

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

- **APPLICATION:**

- ◇ Apply with a roller, brush or flat trowel,
- ◇ A single coat is usually sufficient, providing a continuous layer with a glossy film on the surface is achieved. For more porous substrates, or substrates in poor condition, a second coat should be applied.

- **NOTE:** Where the subsequent application of levelling compound is to exceed 10 mm, or if the area is expected to receive high stresses, apply at least 2 coats and completely saturate the final fresh coat of the moisture vapour barrier with [QUARTZ 0.9 AU](#). Once the moisture vapour barrier is dry and fully cured, all excess sand is to be removed via vacuum cleaning and the area is to be inspected for any bald spots (*where the moisture vapour barrier has no sand*). All bald spots must receive an additional coat of moisture vapour barrier, saturated with [QUARTZ 0.9 AU](#) as detailed above.

### 1.4 PRIMER

- **NOTE:** [ECO PRIM T PLUS](#) may be applied to the MVB once it dry to touch (Approx. 2 hours for [MAPEPROOF 1K TURBO](#)) but no longer than 24 hours. Primer not required if moisture vapour barrier was broadcasted with sand.

**A. [ECO PRIM T PLUS](#) (2930-04-2018 AUS)**

Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**

- ◇ Primer applied using a brush or roller undiluted over the MVB in accordance with the TDS. Ensure no puddling of the primer occurs.



## 1.5 LEVELLING COMPOUND

- **NOTE:** Levelling compound can be applied 2 to 3 hours after applying the primer, but no longer than 24 hours.

*Levelling compound to be chosen from the following options:*

**A. ULTRAPLAN ECO (513-05-2017 AUS)**

Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

**B. ULTRAPLAN (501-05-2017 AUS)**

Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

**C. ULTRAPLAN TRADE (4079-2-2020 AUS)**

Fast drying, interior levelling and smoothing compound from 3 to 40 mm per pour.

**D. ULTRAPLAN MAXI (510-05-2017 AUS)**

Ultra-fast drying, self-levelling compound for thicknesses from 3 to 40 mm with very low VOC's.

**E. ULTRAPLAN FAST TRACK (4027-05-2017 AUS)**

Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**

- ◇ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

## 1.6 ACOUSTIC UNDERLAY ADHESIVE

- **NOTE:** With the system that is to be used, both the flooring manufacturer and the acoustic underlay supplier should be fully accepting of the methods used and satisfied that the installation will perform under the expected environment conditions that the floor will experience.

*Adhesive to be chosen from the following options:*

**A. ULTRABOND ECO V4 SP (224-8-2015)**

Universal adhesive in water dispersion for resilient floor coverings, with very low emission of volatile organic compounds.

**B. ULTRABOND ECO V4 EVOLUTION (5862-8-2019 GB)**

Universal "all in one" adhesive with fast and strong initial tack and long open time for resilient and textile floor and wall coverings.

- **APPLICATION:**

- ◇ Apply adhesive using a V2 notched trowel.
- ◇ Apply adhesive evenly on as much of the substrate that can be covered with flooring whilst the adhesive is still fresh.





## 1.7 TIMBER ADHESIVE

---

### A. **ULTRABOND ECO S955 1K (270-2-2016 GB)**

One component, solvent free, sililated polymer-based adhesive with a very low emission level of volatile organic compounds for all types of parquet.

- **APPLICATION:**

- ◇ Apply adhesive evenly over substrate with MAPEI notched trowel for wood.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this WMS. The TDS can be obtained from [www.mapei.com.au](http://www.mapei.com.au) or by clicking directly on the listed products within the PDF. This Work Method Statement (WMS) provides general recommendations only and is not intended to be interpreted as a generic specification for the application/installation of the listed products. As each project differs in exposure and site conditions, specific recommendations may vary from the information contained above. For recommendations for specific applications/installations please contact MAPEI Australia Pty Ltd.



 PRODUCTS FOR CERAMICS AND STONE MATERIAL

 PRODUCTS FOR RESILIENT AND TEXTILE MATERIALS

 PRODUCTS FOR TIMBER FLOORING

 PRODUCTS FOR CEMENTITIOUS AND RESIN FLOOR COVERING

 BUILDING SPECIALTY PRODUCTS

 ADMIXTURES FOR CONCRETE

 PRODUCTS FOR STRUCTURAL STRENGTHENING

 PRODUCTS FOR MASONRY RESTORATION

 WALL PROTECTIVE AND DECORATIVE COATINGS

 WATERPROOFING

 PRODUCTS FOR UNDERGROUND CONSTRUCTIONS (UTT)

 ELASTIC SEALANTS AND ADHESIVES

 PRODUCTS FOR SPORTS FLOORING

 CEMENT ADDITIVES (C-ADD)

**MAPEI Australia Ltd**

180 Viking Drive

Wacol

QLD 4076

Ph: 07 3276 5000

E: [enquiries@mapei.co.nz](mailto:enquiries@mapei.co.nz)

[www.mapei.co.nz](http://www.mapei.co.nz)