

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



NZT03



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

1. Australasian Timber Flooring Association (ATFA)
2. [MAPEI Surface Preparation Requirements – Floor Covering Installation Systems](#)

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).

Any new concrete should have been curing for a minimum of 28 days and have a RH of 75% or less prior to the application of MAPEI products.

1.3 MOISTURE VAPOUR BARRIER

- **NOTE:** Prior to the application of the moisture vapour barrier, relative humidity (RH) readings must be carried out in accordance with NZS AS 1884:2013.
- A. **[MAPEPROOF 1K TURBO 2918-02-2018 \(AUS\) <95% RH, 28 day old concrete](#)**
 1. 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 (Two coats required when RH is 93 to 95%), 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 the area is expected to receive high stresses, MAPEI highly recommend completely saturating the fresh coat of the moisture vapour barrier with **Quartz 1.2**. Once the moisture vapour barrier is dry and fully cured, all excess **Quartz 1.2** 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 Quartz 1.2*). All bald spots shall receive an additional coat of moisture vapour barrier, saturated with **Quartz 1.2** as detailed above.

1.4 PRIMER

- **NOTE:** **[ECO PRIM T PLUS](#)** must be applied once moisture vapour barrier is 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 \(AUS\)](#)**
 1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.
- **APPLICATION:**
 - ◇ Apply the primer using a brush or roller undiluted in accordance with the TDS.
 - ◇ Ensure no puddling of the primer occurs.



1.5 LEVELLING COMPOUND

- **NOTE:** Levelling compound must 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 \(AUS\)](#)

1. 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 \(AUS\)](#)

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

C. [ULTRAPLAN MAXI 510-05-2017 \(AUS\)](#)

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

D. [ULTRAPLAN FAST TRACK 4027-05-2017 \(AUS\)](#)

1. 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.

A. [ULTRABOND ECO V4 SP 224-8-2015 \(GB\)](#)

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

- **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 \(GB\)](#)

1. One component, solvent free, silitated 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 Work Method Statement. The TDS' can be obtained from www.mapei.co.nz, 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. 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.co.nz. Each project differs in exposure/condition, therefore specific recommendations may vary from the information contained above. For recommendations for specific applications/installations please contact MAPEI New Zealand Ltd.

