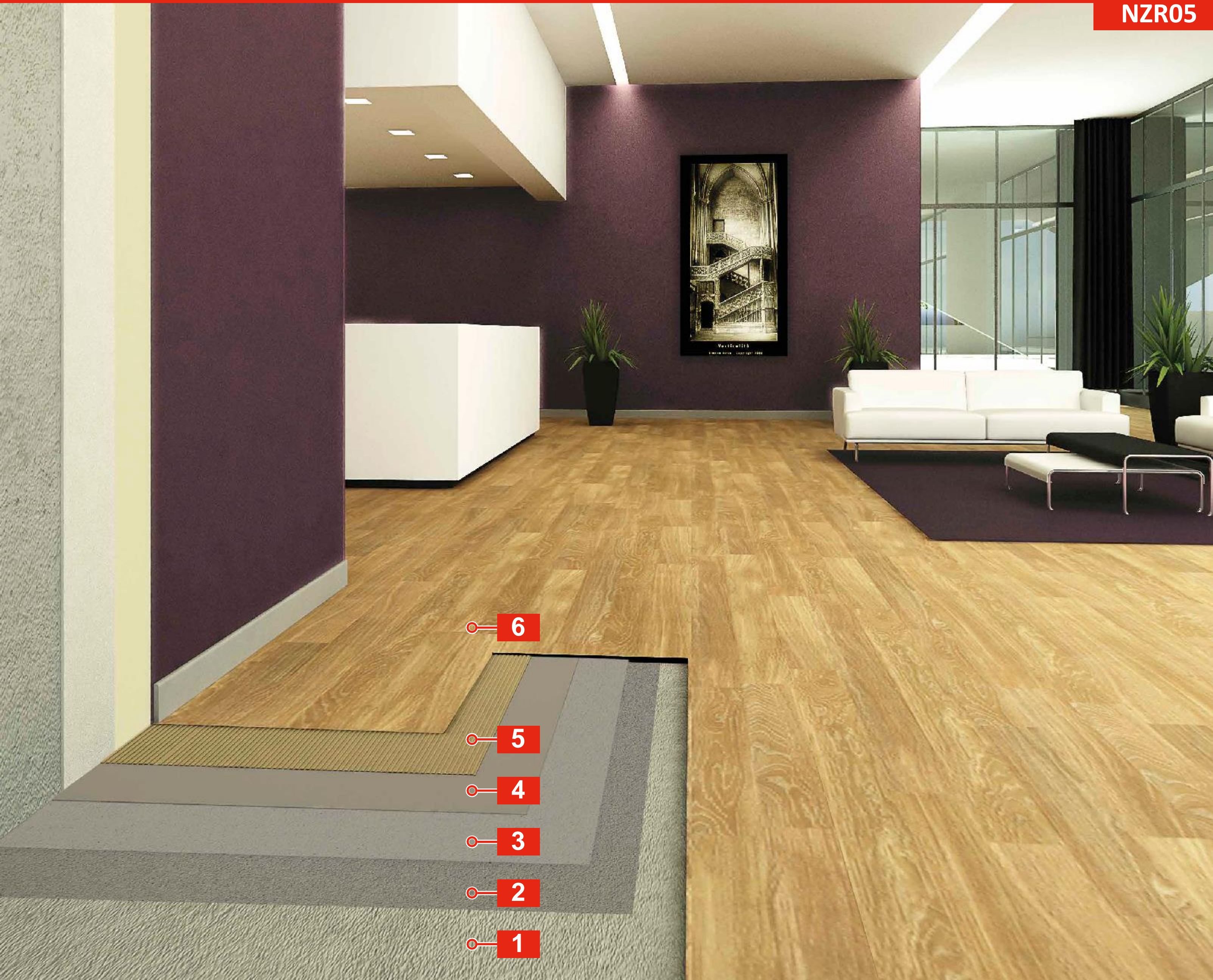


# SYSTEM FOR INSTALLATION OF LVT OVER CONCRETE WITH HIGH RESIDUAL MOISTURE CONTENT



NZR05



properly prepared  
concrete substrate

1



moisture vapour barrier  
Primer MF

2



primer  
Eco Prim T Plus  
(undiluted)

3



levelling compound  
Ultraplan

4



adhesive  
Ultrabond Eco VS90  
Plus

5

LVT floor covering

6

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

## PART 1 SYSTEM

### 1.1 REFERENCES

1. NZS AS 1884:2013 – Floor Coverings – Resilient Sheet and Tiles – Installation Practices
2. [MAPEI Surface Preparation Requirements – Floor Covering Installation Systems](#)
3. [MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings](#)

### 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. For readings <75% RH and falling, a moisture vapour barrier is not required.

**Moisture vapour barrier to be chosen from the following options:**

**A. [PRIMER MF 544-02-2018 \(AUS\)](#)**

1. Epoxy moisture barrier for cementitious substrates.

**B. [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, 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 final coat of the moisture vapour barrier with [Quartz 1.2](#). Once the moisture vapour barrier is dry and set for light foot traffic, 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](#), 4 hours for [PRIMER MF](#)) 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

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- **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 ADHESIVE

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- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

**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.

**B. [ULTRABOND ECO VS90 PLUS 5855-9-2015 \(GB\)](#)**

1. Universal high temperature adhesive in water dispersion for resilient floor coverings.

- **APPLICATION:**

- ◇ Before applying, stir the adhesive in the bucket. Apply adhesive evenly to the substrate using a V1 notched trowel.
- ◇ Do not apply the adhesive where flooring material cannot be installed with the adhesive open time.

***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](http://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](http://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.

