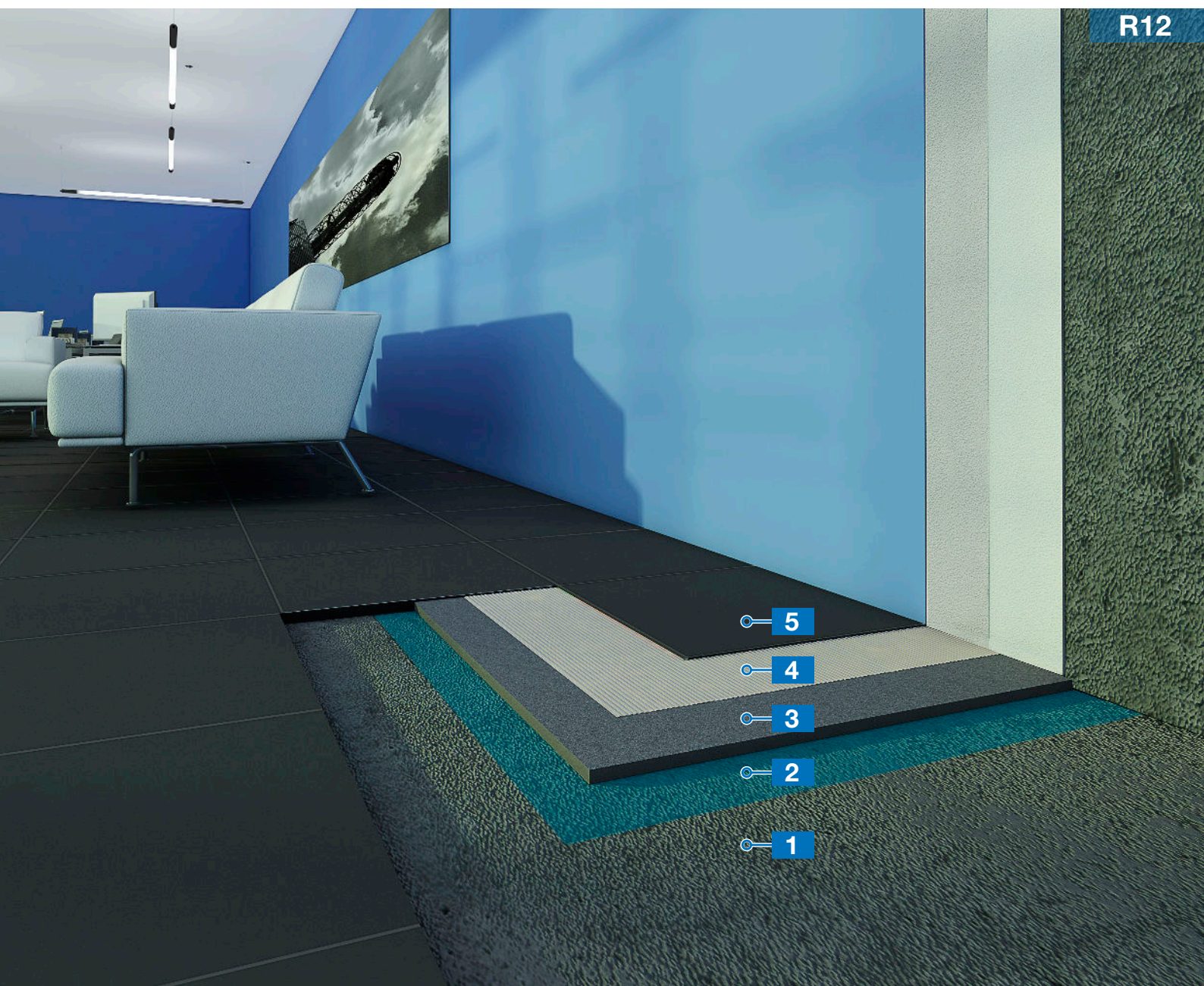


# SYSTEM FOR THE INSTALLATION OF CARPET TILES ON UNEVEN CONCRETE WITH HIGH RESIDUAL MOISTURE CONTENT



R12

existing uneven concrete

1



moisture vapour barrier  
**Mapeproof Primer**

2



levelling compound  
(if required)  
**UC Leveller**

3



adhesive  
**Ultrabond Eco Fix or  
Ultrabond Eco Tack**

4

vinyl or vinyl-backed  
carpet tiles

5

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

## PART 1 SYSTEM

### 1.1 INFORMATION

- This work method statement covers the system to install carpet tiles over an uneven concrete substrate with high residual moisture, in accordance with industry best practice, relevant standards and as per MAPEI technical data sheets (TDS).
- MAPEI provides technical data sheets (TDS) and safety data sheets (SDS) for all products which should be read in conjunction with this Work Method Statement (WMS). Where necessary, conduct a chemical risk assessment and SWMS to ensure each products' correct and safe use. These documents can be obtained from [www.mapei.com.au](http://www.mapei.com.au), or by clicking directly on the products listed within the PDF.
- Products in this WMS can contribute towards satisfying the relevant Green Star credits. The VOC content of products can be found under section 9 on the product SDS, while VOC emissions certificates can be found on the product webpage.

### 1.2 USER NOTES

### 1.3 RELEVANT DOCUMENTATION

#### A. Australian Standard(s):

1. AS 2455.2-2019 – Textile floor coverings – Installation practice – Part 2: Carpet Tiles

#### B. MAPEI Technical Notebook(s):

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

### 1.4 CONCRETE SUBSTRATE PREPARATION

1. 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).
2. Relative humidity (R.H.) and alkalinity (pH) level readings must be carried out in accordance with AS 2455.2-2019. For R.H. readings >85% or pH levels >11, Mapei requires a moisture vapour barrier (MVB). Check with supplier of carpet tiles for their moisture requirements.

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.





## 1.5 MOISTURE VAPOUR BARRIER – OPTION A

### A. **MAPEPROOF PRIMER** - ☐

One-component, rapid drying PVDC based dispersion primer. Can be used on <95% RH, 28-day old concrete.

#### • **APPLICATION:**

- ◇ If the surface has low absorbency, apply a diluted (1:1 with water) coat of the primer first and allow to dry (in addition to the subsequent 2 coats).
- ◇ Apply the first coat using a roller in one direction. When the first coat is touch dry (approximately 15-30 mins), apply the second coat perpendicular to the direction of the first coat application.
- ◇ If pin holing or weak spots are observed apply an additional coat in accordance to the TDS.
- ◇ Levelling compound applied 2-5 hours after the application, but no longer than 12 hours.

## 1.6 MOISTURE VAPOUR BARRIER – OPTION B

### Step 1: MVB

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

### A. **PRIMER MF** - ☐

Epoxy moisture barrier for cementitious substrates. Can be used on 100 % RH, 7-day old concrete.

### B. **MAPEPROOF 1K TURBO** - ☐

One component, solvent free, moisture curing and rapid drying polyurethane surface membrane with a very low VOC. Can be used on <95% RH, 28-day old concrete.

#### • **APPLICATION:**

- ◇ Apply with a roller or brush
- ◇ 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.
- ◇ **ECO PRIM T PLUS** must be applied once MVB is dry to touch (Approx. 2 hours for **MAPEPROOF 1K TURBO**, 4 hours for **PRIMER MF**) but no longer than 24 hours.

- **NOTE:** Where the subsequent application of levelling compound is to exceed 10 mm in thickness, or is expected to receive high stresses, apply at least 2 coats and saturate the final fresh coat of the moisture vapour barrier with **QUARTZ 0.9 AU** - ☐. Once the MVB is dry and fully cured, all excess sand is to be removed via vacuum cleaning and the area inspected for any bald spots (*where the MVB has no sand*). All bald spots must receive an additional coat, saturated with **QUARTZ 0.9 AU** as detailed above. Step 2 primer not required if the MVB is broadcasted with sand.

### Step 2: Primer

### A. **ECO PRIM T PLUS** - ☐

Solvent free acrylic primer in water dispersion with very low emissions of VOC's.

#### • **APPLICATION:**

- ◇ Used undiluted over the MVB using a brush or roller.
- ◇ Levelling compound must be applied 4 to 5 hours after the application of **ECO PRIM T PLUS** but no longer than 24 hours.



## 1.7 LEVELLING COMPOUND - IF REQUIRED

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

PRODUCT		APPLICATION THICKNESS (mm)	TIME BEFORE LAYING (Hours)
UC LEVELLER	<input type="checkbox"/>	3 - 40	24
ULTRAPLAN ECO	<input type="checkbox"/>	3 - 10	12
ULTRAPLAN	<input type="checkbox"/>	3 - 15	12
ULTRAPLAN TRADE	<input type="checkbox"/>	3 - 40	24 - 72
ULTRAPLAN FAST TRACK	<input type="checkbox"/>	3 - 10	2
UC LEVELLER MAXI	<input type="checkbox"/>	10 - 100	24 - 72

- **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.

## 1.8 ADHESIVE

*Adhesive to be chosen from the following options:*

**A. ULTRABOND ECO FIX - ☐**

Adhesive in water dispersion with very low emission of volatile organic compounds, with permanent tack for dry-lay floor tiles.

**B. ULTRABOND ECO TACK - ☐**

Acrylic tackifier dispersed in water with a very low emission level of volatile organic compounds.

- **APPLICATION:**

- ◇ Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatised to the recommended temperatures and R.H.
- ◇ If the adhesive is applied directly to the moisture vapour barrier. Allow for the curing time of the adhesive to be extended.
- ◇ Apply enough adhesive to the substrate using a trowel such that it wets the back of the covering completely.



NOTES

- 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)



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