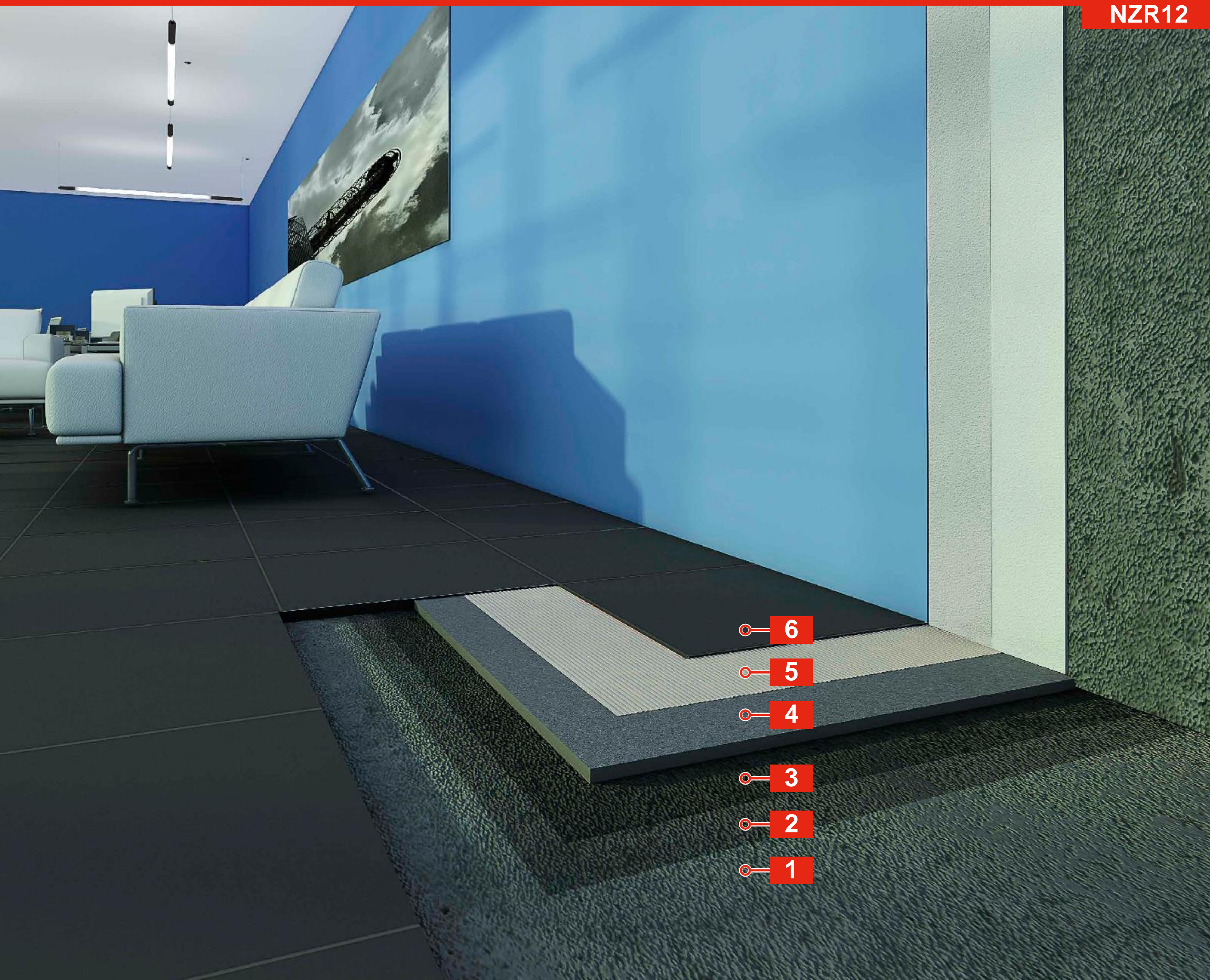


SYSTEM FOR THE INSTALLATION OF CARPET TILES ON UNEVEN CONCRETE WITH HIGH RESIDUAL MOISTURE CONTENT



NZR12



existing uneven concrete

1



moisture vapour barrier
Mapeproof 1K Turbo or
Primer MF

2



primer
Eco Prim T Plus
(undiluted)

3



levelling compound
(if required)
UC Leveller

4



adhesive
Ultrabond Eco Fix or
Ultrabond Eco Tack

5

vinyl or vinyl-backed
carpet tiles

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. AS/NZS 2455.1:2007 Textile Floor Coverings – Installation Practice – Part 1: General
2. AS/NZS 2455.2:2007 Textile Floor Coverings – Installation Practice – Part 2: Carpet Tiles
3. [MAPEI Surface Preparation Requirements – Floor Covering Installation Systems](#)
4. [MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings](#)

1.2 UNEVEN 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, 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 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**, 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.



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. UC LEVELLER 518-04-2018 (AUS)

1. Fast hardening levelling smoothing compound for thicknesses from 3 mm to 70 mm: especially recommended for pumping.

B. 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.

C. 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.

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

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatised to the recommended temperatures and R.H.
- **NOTE:** If a levelling compound is not used, the adhesive may be applied directly to the primed moisture vapour barrier. Please note that the curing time of the adhesive is therefore extended.

Adhesive to be chosen from the following options:

A. ULTRABOND ECO FIX 214-1-2016 (GB)

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

B. ULTRABOND ECO TACK 213-6-2012

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

- **APPLICATION:**

- ◇ Apply adhesive to the substrate with a suitable notched trowel.

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.

