

SYSTEM FOR INSTALLING VINYL FLOOR COVERINGS OVER CONCRETE WITH HIGH RESIDUAL MOISTURE



R06



properly prepared
concrete substrate

moisture vapour barrier
Primer MF

primer
Eco Prim T Plus
(undiluted)

levelling compound
Ultraplan

adhesive
Ultrabond Eco 380

vinyl
floorcovering

adhesive for coving
Ultrabond Eco Contact

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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 vinyl floor coverings over concrete with high residual moisture in internal environments, 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, 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 1884-2021 – Floor coverings – Resilient sheet and tiles – Installation practices

B. MAPEI Technical Notebook(s):

1. [Surface Preparation Requirements - Floor Covering Installation System](#)

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 pH level readings must be carried out in accordance with AS 1884-2021. For R.H. readings >85% or pH levels >11, Mapei requires a moisture vapour barrier (MVB). Check with supplier of floor covering 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

Levelling compound to be chosen from the following options:

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

- **APPLICATION:**

- ◇ Spread the levelling compound using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness. Do not exceed the maximum stated thickness of the product chosen.

1.8 ADHESIVE - FLOORING

Adhesive to be chosen from the following options:

A. ULTRABOND ECO V4 SP -

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

B. ULTRABOND ECO V4 EVOLUTION -

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

C. ULTRABOND ECO VS90 PLUS -

Universal high temperature hard-set adhesive in water dispersion for resilient floor coverings.

D. ULTRABOND ECO 380 -

Solvent free, transitional pressure sensitive adhesive with strong initial tack and extended open time for vinyl floor coverings.

- **APPLICATION:**

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

1.9 ADHESIVE – COVING

A. ULTRABOND ECO CONTACT -

Solvent free contact adhesive for resilient and textile floor and wall coverings

- **APPLICATION:**

- ◇ Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.
- ◇ Apply adhesive with a roller or small-notched trowel evenly on both the covering and on the substrate.



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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