

SYSTEM FOR THE INSTALLATION OF LVT OVER ACOUSTIC MATTING ON A CONCRETE SUBSTRATE



properly prepared
concrete substrate



primer
Mapeproof Primer



levelling compound
Ultraplan



matting adhesive
Ultrabond Eco V4 SP

acoustic matting



adhesive
Ultrabond Eco MS 4 LVT Wall

floor covering

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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 LVT on acoustic matting over concrete 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. Each project differs in exposure/condition, therefore specific recommendations may vary from the information contained above. However, MAPEI does have numerous references of past projects that have successfully applied this system in conjunction with proprietary acoustic mattings. Testing has also been completed in MAPEI's internal laboratory to confirm the compatibility of this system with various proprietary acoustic mattings. It must be noted that proprietary acoustic mattings are NOT a MAPEI product and, as such, MAPEI has no control over the formulation or the performance characteristics of the proprietary acoustic matting. For further information or recommendations for applications/installations, please contact MAPEI Technical Assistance Department.

Please note, due to the varying methods of construction, we recommend that on-site testing by a certified acoustic engineer be conducted for suitability to the prevailing site conditions and acoustic objectives required.



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 – ACOUSTIC MATTING

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.

- **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.

1.9 ACOUSTIC MATTING

A. PROPRIETARY ACOUSTIC MATTING -

- **APPLICATION:**

- ◇ Apply acoustic matting into the wet adhesive in strict accordance with the relevant MAPEI TDS and acoustic matting manufacturers' instructions.
- ◇ With the system that is to be used, the acoustic underlay and flooring suppliers must be fully accepting of the methods used and satisfied that the installation will perform under the expected environment conditions that the floor will experience. Any system guidelines specified on the acoustic matting or flooring manufacturer's technical information take precedence over this WMS.



1.10 ADHESIVE – FLOOR COVERING

Adhesive to be chosen from the following options:

A. ULTRABOND ECO MS 4 LVT WALL -

One-component, silylated polymer-based adhesive for laying LVT on walls and floors.

B. ADESILEX G19 -

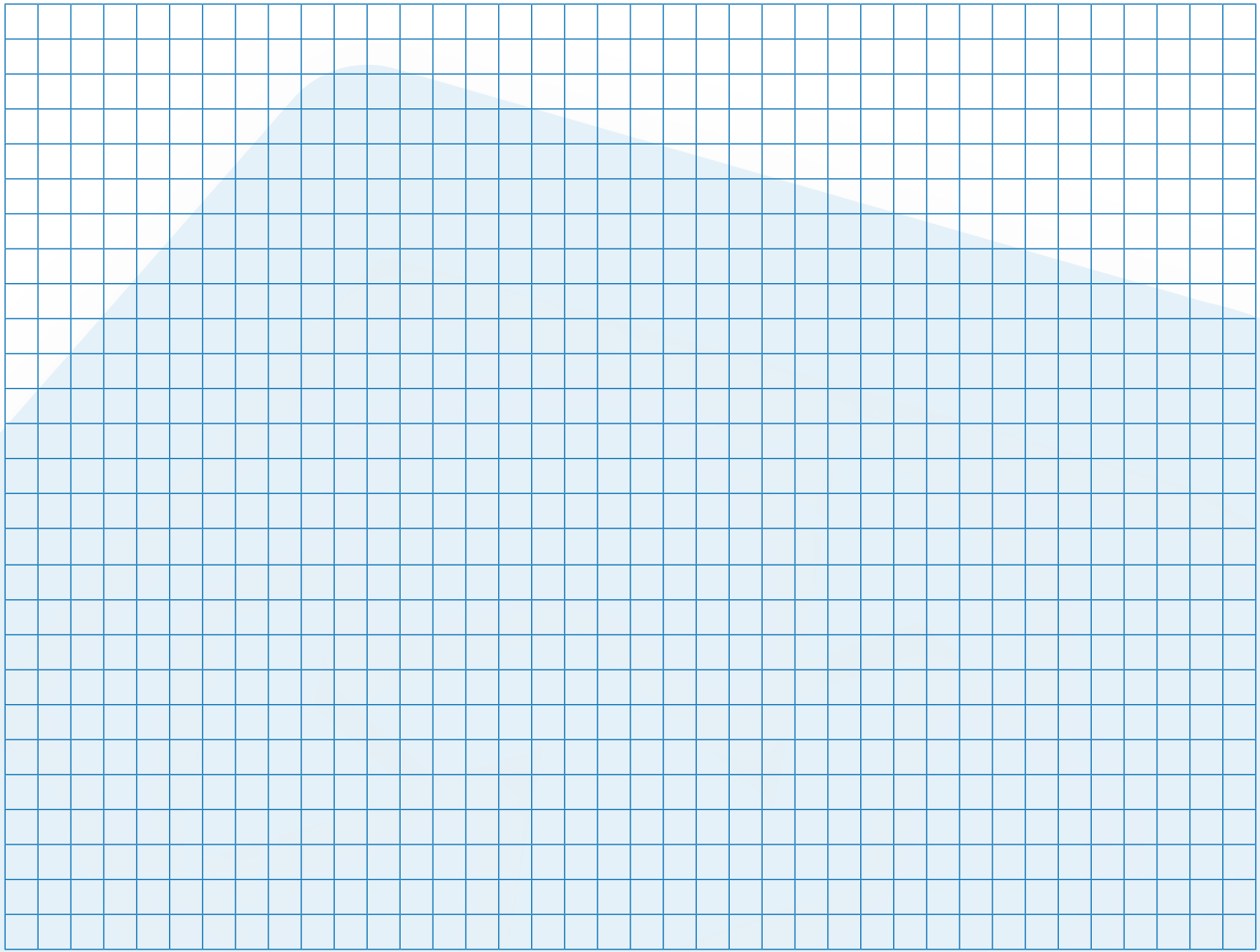
Two-component, epoxy-polyurethane adhesive for resilient flooring. Can be used to bond sheet vinyl flooring in this system.

• **APPLICATION:**

- ◇ Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatised to the recommended temperatures and R.H.
- ◇ Apply adhesive with a suitable notched trowel evenly onto the acoustic matting whilst the adhesive is still fresh.



NOTES



PRODUCTS FOR CERAMICS AND STONE MATERIAL



PRODUCTS FOR RESILIENT AND TEXTILE MATERIALS



PRODUCTS FOR TIMBER FLOORING



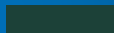
PRODUCTS FOR CEMENTITIOUS AND RESIN FLOOR COVERING



BUILDING SPECIALTY PRODUCTS



ADMIXTURES FOR CONCRETE



PRODUCTS FOR STRUCTURAL STRENGTHENING



PRODUCTS FOR MASONRY RESTORATION



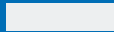
WALL PROTECTIVE AND DECORATIVE COATINGS



WATERPROOFING



PRODUCTS FOR UNDERGROUND CONSTRUCTIONS (UTT)



ELASTIC SEALANTS AND ADHESIVES



PRODUCTS FOR SPORTS FLOORING



CEMENT ADDITIVES (C-ADD)

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