

SECTION A SUMMARY

A.1 INFORMATION

1. This work method statement (WMS) covers the systems to install internal ceramic, textile, timber and vinyl floors over Xcem Alphafloor in accordance with MAPEI's technical data sheets (TDS) and guidelines. Relevant standards, architect's drawings, specifications, and substrate manufacturers guidelines are reviewed by Mapei in creating this document. The project stakeholders are responsible in ensuring the system is compliant with the appropriate buildings codes, Australian Standards, and any other project design requirements applicable to the project.
2. This WMS is suitable for internal dry areas only. For other areas please contact Mapei Technical Services for project specific details.
3. 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.
4. 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.

A.2 SECTIONS

- A. System Overview
- B. Floor Levelling System
- C. Ceramic System
- D. Textile System
- E. Timber System
- F. Sheet Vinyl & LVT System

A.3 SUBSTRATE PREPARATION

All substrates must be structurally sound, dry, solid, and stable. Any laitance, dust, grease, oil, paint, release agent or curing compounds present on the surface of the above listed substrates that may inhibit bond must be mechanically removed. The substrates should then be cleaned and prepared in accordance with the relevant standards, substrate manufacturer's instructions, and as per the MAPEI technical data sheets (TDS). If a moisture vapour barrier (MVB) is required, please contact Mapei for advice on a suitable MVB.

Substrate joints should be free of movement to ensure the performance of the floor covering system.

Substrate must be rigid, stable and free of deflection. Deflection should not exceed the recommended L/360 limit stated in AS 3958-2023. Some stone tiles can be more sensitive to movements; therefore, this should be restricted even further to L/720 deflection limit.

A.4 REFERENCES

A. Product TDS & SDS:

MAPEI provides technical data sheets (TDS) and safety data sheets (SDS) for all products which should be read in conjunction with this Short Form Specification. Where necessary, conduct a chemical risk assessment and SWMS to ensure each product's correct and safe use. These documents can be obtained from www.mapei.com.au, or by clicking directly on the **PRODUCT** name listed within the PDF.

B. Australian Standard(s):

1. AS 1884:2021 – Floor coverings – Resilient sheet and tiles – Installation practices
2. AS 2455.1:2019 – Textile floor coverings – Installation practice General
3. AS 2455.2:2019 – Textile floor coverings – Installation practice Carpet Tiles
4. AS 3958-2023 – Installation of ceramic and stone tiles

C. MAPEI Technical Notebook(s):

1. [Installation of Resilient and Textile Flooring and Wall Coverings](#)
2. [Surface Preparation Requirements – Ceramic and Stone Installation System](#)
3. [Guide for the Installation of Ceramic Materials](#)
4. [Grout Troubleshooting Guide](#)

D. Other References:

1. [Australasian Timber Flooring Association \(ATFA\)](#)



SECTION B FLOOR LEVELLING

B.1 PRIMER – WHERE A LEVELLING COMPOUND IS REQUIRED

A. ECO PRIM T PLUS

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

APPLICATION:

1. The product can be applied using a brush or roller.
2. For porous substrates and anhydrite screeds, dilute **ECO PRIM T PLUS** by 1:2 with water.
3. Apply the levelling compound over the primer after waiting 2 hours but do not wait longer than 24 hours.

B.2 LEVELLING COMPOUND – WHERE REQUIRED

A. ULTRAPLAN RENOVATION

Fibre-reinforced levelling compound for interiors applied from 3 to 40 mm in a single application.

APPLICATION:

1. Mix the levelling compound with clean water and apply over the substrate using a large metal trowel at the required thickness. Do not exceed the product's stated maximum thickness.

SECTION C CERAMIC SYSTEM

C.1 TILE ADHESIVE

Choose from the following options:

Normal Set

A. KERAFLEX MAXI S1 ZERO

High-performance, deformable cementitious grey adhesive, with extended open time and no vertical slip, very low emission of VOC and with reduced embodied carbon with remainder emissions offset. Especially suitable for the installation of large-size porcelain tiles and natural stone.

Rapid Set

B. KERAQUICK MAXI S1

High-performance, deformable, rapid-setting and hydrating, non-slip cementitious adhesive with very low emission of volatile organic compounds for ceramic tiles and in particular for stone, including large formats. Suitable for application in layers up to 15 mm thick.

APPLICATION:

1. Some natural and engineered stones can be prone to warping (moisture sensitivity) and staining. Therefore, Mapei recommends when using stone materials to consult the manufacturer/supplier for any recommendations or guidelines. Please refer to the Mapei technical notebook 'Laying Stone Materials' for more information.
2. Prepare and mix adhesive in strict accordance with the packaging and TDS.
3. To ensure good adhesion, apply with pressure a thin coat of the adhesive with the straight edge of the trowel. Immediately follow this with a layer of adhesive at the correct thickness using a suitable notched trowel in straight lines.
4. Adhesive should also be pressure applied to the back of the tile with a thin coat using the straight edge of the trowel (back-buttering).
5. Ensure the adhesive stays "fresh" and does not form a skin, especially in hot environments, prior to the application of the tile.
6. Place the tile firmly into position wet-on-wet with a slight back and forward motion perpendicular to the trowel lines to collapse the notches.
7. It is recommended to periodically remove and assess adhesive coverage. Continue if acceptable, otherwise reassess trowel and application technique.
8. Extend the curing period before light foot traffic and grouting as the tile adhesive will take longer to cure when applied between two non-absorbent surfaces.

C.2 TILE GROUT

Choose from the following options:

A. ULTRACOLOR PLUS

- Good Solution

High-performance, anti-efflorescence, non-irritating quick-setting and drying polymer-modified mortar with water-repellent DropEffect® and mould resistant BioBlock® technology for grouting joints from 2-20 mm wide. Low emission of VOC and with reduced embodied carbon with remainder emissions offset.

B. KERAPOXY

- Best Solution

Two-component acid-resistant epoxy grout (available in 17 colours) for joints of at least 1mm. Can also be used as an adhesive.

APPLICATION:

1. Ensure the joints are clean, free of dust and empty down to at least 2/3 of the thickness of the tiles. It is then suggested to carry out a 1 m² sample area, along with the silicone, to check cleanability and for approval by the designer.
2. Prepare and mix grout in strict accordance with the packaging and TDS.
3. Fill the joints completely with the grout using the appropriate trowel or rubber float, ensuring the joints are completely compacted with no unevenness.
4. Remove excess grout while still fresh from the surface of the tile by moving the float diagonally across the joints.
5. **ULTRACOLOR PLUS:** When the grout loses its plasticity and becomes opaque, clean off excess grout with a hard, damp sponge working in a diagonal direction to the joints. Rinse sponge regularly using clean water.
6. **KERAPOXY:** After grouting, cleaning of the floors and walls should commence immediately before the product dries. Wet the surface thoroughly and emulsify with an abrasive pad taking care to not wash-out the joints. **ULTRACARE KERAPOXY CLEANER** is recommended for removing grout haze. **ULTRACARE EPOXY OFF GEL** can be used to remove any unwanted epoxy grout residue.

C.3 SILICONE

Choose from the following options:

A. MAPESIL AC

Pure, mould-resistant, acetic, silicone sealant available in 40 colours.

B. MAPESIL LM

Neutral mould-resistant silicone sealant with very low emissions of VOC for stone and marble.

APPLICATION:

1. Movement joints to be installed in accordance with AS 3958-2023.
2. To facilitate the finishing of the sealant after its application and create a smooth, compact surface without hollows that could ease dirt pick up and lead to future formation of moulds use **ULTRACARE SMOOTH SILICONE**.

SECTION D TEXTILE SYSTEM

D.1 CARPET ADHESIVE

Choose from the following options:

A. ULTRABOND ECO V4 EVOLUTION – For Broadloom Carpet

Universal all-in-one adhesive with fast and strong initial tack, long open time, used for resilient and textile coverings.

APPLICATION:

1. Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatised to the recommended temperatures and R.H.
2. Apply the adhesive in an even layer on the substrate using a V3 notched trowel.
3. Do not apply the adhesive on an area of substrate which may not be dressed with the flooring material within 30-40 minutes.



B. ULTRABOND ECO TACK TX AU – For Carpet Tile

Acrylic-based adhesive designed to provide a permanently tacky film when dry to allow the removal and replacement of carpet tiles when required.

APPLICATION:

1. Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatised to the recommended temperatures and R.H.
2. Apply the adhesive evenly to the substrate using a roller or trowel. In the case that no adhesive residue is to remain on the substrate, the adhesive can be applied to the back of the tiles.
3. Allow to dry to a transparent tacky film. Drying times may vary according to sub-floor type and ambient temperature, humidity, and airflow.
4. Install the flooring within 12 hours after the adhesive application.

SECTION E TIMBER SYSTEM

E.1 TIMBER ADHESIVE

A. ULTRABOND ECO S955 1K

One component, solvent-free (according to TRGS 610) siliated polymer-based adhesive with a very low emission level of volatile organic compounds (EMICODE EC1 Plus) for all types of parquet.

APPLICATION:

1. Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatised to the recommended temperatures and R.H.
2. Apply adhesive evenly over the substrate with Mapei notched trowel for wood.
3. Install the flooring approximately within 50-60 minutes (under standard conditions).

SECTION F SHEET VINYL & LVT SYSTEM

F.1 ADHESIVE

Choose from the following options:

A. ULTRABOND ECO V4 EVOLUTION

Universal all-in-one adhesive with fast and strong initial tack, long open time, used for resilient and textile coverings.

B. ULTRABOND ECO V4SP

Universal very high-performance adhesive for resilient floor coverings.

C. ULTRABOND ECO VS90 PLUS

Universal high temperature adhesive for resilient flooring coverings.

APPLICATION:

1. Prior to laying the flooring, ensure it and the substrate are acclimatised to the recommended temperatures and residual humidity.
2. Apply the adhesive with a suitable notched trowel. Install the floor covering into the adhesive in accordance with the TDS.

