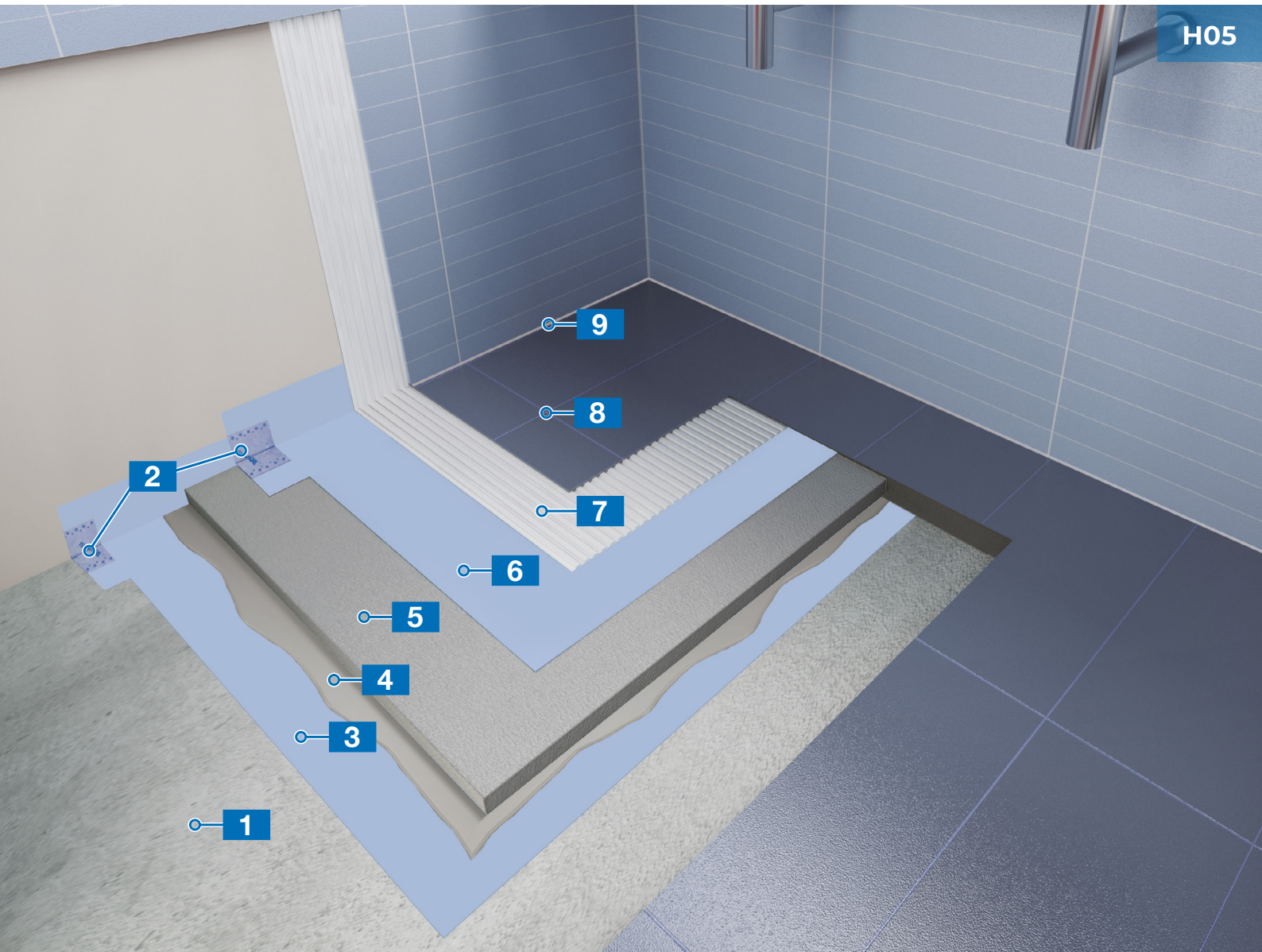


SYSTEM FOR THE INSTALLATION OF TILES IN INTERNAL WET AREAS



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|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  | or |  |
| concrete substrate | rubber tape
Mapeband Easy | primary waterproofing membrane
Mapelastic AquaDefense | bonding slurry
Planicrete SP mixed with Topcem Pronto Slurry | screed
Topcem Pronto | secondary waterproofing membrane
Mapelastic AquaDefense | adhesive
Large Format Tile Adhesive | grout
Keracolor FF | silicone
Mapesil AC | | silicone
Mapesil LM |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 9 |

PART 1 SYSTEM

1.1 INFORMATION

- This work method statement covers the system to install ceramic/stone tiles in internal wet areas, 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 3958.1-2007 – Ceramic Tiles; Part 1: Guide to the Installation of Ceramic Tiles**
2. **AS 3740-2021 – Waterproofing of Domestic Wet Areas**

B. MAPEI Technical Notebook(s):

1. **Installation of Heated Screeds and Substrates for Laying Floors**
2. **Ceramic Substrate Preparation Guide**
3. **Guide for the Installation of Ceramic Materials**
4. **Grout Troubleshooting Guide**
5. **Laying Stone Materials**

C. Other References:

1. **ASAA Natural Stone Manual**

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.

1.4 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).

1.5 WATERPROOFING MEMBRANE — BELOW SCREED

NOTE: Prior to the application of the waterproofing membrane:

- Ensure all pipe penetrations & angles are primed with **ECO PRIM GRIP**. Ensure penetrations are appropriately detailed.
- Use a **MAPEFLEX** product as general sealant/adhesive where required.
- Ensure a waterproofing bandage has been applied with **MAPEBAND EASY** at wall/wall, wall/floor junctions and all other areas where movement is expected. Seal the bandage overlaps with a **MAPEFLEX** product.

A. MAPELASTIC AQUADEFENSE

Ready-to-use, ultra-quick drying, Class III flexible liquid membrane for internal and external waterproofing applications. Applied at 0.4 mm per coat. Certified to AS/NZS 4858:2004 and AS 4654.1-2012.

APPLICATION:

- Waterproofing membrane must be applied to walls and floors in a minimum of two even coats to form a final flexible, continuous dry film thickness in accordance with which membrane was used.
- (FC Sheeting) It is recommended to reinforce with **MAPETEX 50** at the sheet joints by embedding in the first membrane coat in accordance with the TDS.

1.6 ENGINEERED SCREED

A. TOPCEM PRONTO

Pre-blended, normal setting, controlled shrinkage engineered screed. Allow 24-48 hours of drying before applying subsequent product.

APPLICATION:

- Ensure a slurry coat of **PLANICRETE SP** mixed with **TOPCEM PRONTO SLURRY** has been applied depending on chosen product. Refer to the TDS for mixing details.
- Mix engineered screed in strict accordance with the TDS, paying particular attention to the surrounding environmental conditions.
- Ensure screed is applied over the slurry coat whilst the slurry coat is still wet at thickness of 10 – 70 mm.
- Ensure screed has adequate falls in accordance with AS 3740-2021.

1.7 WATERPROOFING MEMBRANE — ABOVE SCREED

NOTE: Prior to the application of the waterproofing membrane ensure a waterproofing bandage has been applied with **MAPEBAND EASY** at wall/wall, wall/floor junctions and all other areas where movement is expected. Seal the bandage overlaps with a **MAPEFLEX** product.

A. MAPELASTIC AQUADEFENSE

Ready-to-use, ultra-quick drying, Class III flexible liquid membrane for internal and external waterproofing applications. Applied at 0.4 mm per coat. Certified to AS/NZS 4858:2004 and AS 4654.1-2012.

APPLICATION:

- Waterproofing membrane must be applied to walls and floors in a minimum of two even coats to form a final flexible, continuous dry film thickness in accordance with which membrane was used.
- (FC Sheeting) It is recommended to reinforce with **MAPETEX 50** at the sheet joints by embedding in the first membrane coat in accordance with the TDS.

1.8 ADHESIVE

A. LARGE FORMAT TILE ADHESIVE

High-performance, deformable cementitious adhesive with no vertical slip and extended open time, for ceramic tiles and stone material including in large format.

APPLICATION:

- 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.
- Prepare and mix adhesive in strict accordance to the packaging and TDS.
- 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.
- Adhesive should also be pressure applied to the back of the tile/stone with a thin coat using the straight edge of the trowel (back-buttering).
- Ensure the adhesive stays "fresh" and does not form a skin, especially in hot environments, prior to the application of the tile/stone.
- Place the tile/stone firmly into position wet-on-wet with a slight back and forward motion perpendicular to the trowel lines to collapse the notches.
- It is recommended to periodically remove and assess adhesive coverage. Continue if acceptable, otherwise reassess trowel and application technique.

1.9 GROUT

NOTE: To estimate the consumption rate according to specific project data, use the **MAPEI GROUTS AND SEALANTS CALCULATOR**.

A. KERACOLOR FF

High performance, polymer-modified, water-repellent, mould resistant cement-based grout with DropEffect® and Bioblock® technology for joints up to 6 mm.

APPLICATION:

- 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.
- Mix the grout and fill the joints completely using a trowel or rubber float. Ensuring the joints are completely compacted with no unevenness.
- Remove excess grout while still fresh from the surface of the tile/stone by moving the float diagonally across the joints.
- When the grout loses plasticity and becomes opaque, clean excess grout with a hard, damp sponge working diagonal to the joints. Rinse sponge regularly using clean water.

1.10 SILICONE

Silicone to be selected from the below options:

A. MAPESIL AC

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

B. MAPESIL LM

Neutral mould resistant silicone sealant for stone and marble.

APPLICATION:

- Movement joints should be installed in accordance with AS 3958.1-2007.

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Product Guide



Mapeband Easy

Size	Barcode
10 m	8022452113406
30 m	8022452113413



Topcem Pronto Slurry

Size	Barcode
20 kg	9345490000811



Planicrete SP

Size	Barcode
25 kg	9345490000453



Topcem Pronto

Size	Barcode
20 kg	9345490001429



Large Format Tile Adhesive

Size	Barcode
20 kg	9345490002969



Mapelastic Aquadefense

Size	Barcode
15 kg	8022452056055



Keracolor FF

Size	Barcode
2 kg	Refer to Mapei Price List for the entire range and barcodes.
5 kg	
20 kg	



Mapesil AC or Mapesil LM

Size	Barcode
310 ml	Refer to Mapei Price List for the entire range and barcodes.