

PART 1 SYSTEM

1.1 REFERENCES

A. Australian Standard(s):

1. AS 4654.2-2012 – Waterproofing membranes for external above-ground use – Part 2: Design and installation

1.2 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 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).

Concrete or screed surface should have a minimum equivalent of a wood float or light broom finish to aid in adhesion.

1.3 LEVELLING MATERIAL – WHERE REQUIRED

- **NOTE:** Ensure substrate has adequate falls in accordance with Clause 2.5.2 of AS 4654.2. If not, the below two options should be utilised to create falls.

Levelling material to be chosen from the following options:

A. MAPECEM QUICKPATCH (PR4914, 2017) – Recommended <10 mm

1. High performance, high flow concrete patch.

- **APPLICATION:**

- ◇ Immediately after mixing, pour mix onto the surface and work it in to obtain an excellent mechanical bond, in thicknesses from 1 to 75 mm.

B. TOPCEM PRONTO (209-04-2018 AUS) – >10 mm

1. Ready-to-use normal setting, controlled-shrinkage mortar for quick-drying screeds (4 days).

- **NOTE:** Prior to the application of the screed:

- ◇ If the entire area of the roof is to receive a screed, MAPEI recommends adding a primary waterproofing membrane prior to screeding with **MAPELASTIC SMART** (2013-03-2018 AUS).
- ◇ Ensure a slurry coat of **PLANICRETE SP** (700-6-2016) mixed with **TOPCEM** (207-02-2017 AUS) has been applied. Refer to the TDS for mixing details,

- **APPLICATION:**

- ◇ Mix water and **TOPCEM PRONTO** in strict accordance with the ratios described in the TDS.
- ◇ Ensure screed is applied over the slurry coat whilst the slurry coat is still wet.
- ◇ Ensure a minimum thickness of 10 mm is applied.



1.4 WATERPROOFING MEMBRANE

A. AQUAFLEX ROOF (2121-08-2017 AUS)

1. Ready-to-use flexible liquid membrane with fibres for continuous waterproofing layers on exposed surfaces.
 - **NOTE:** Prior to the application of the waterproofing membrane:
 - ◇ Apply a bond breaker/tape with **MAPEBAND** (337-9-2016 GB) or **MAPEBAND SA** (2179-10-2013) or a flexible fillet with **MAPEFLEX PU45 FT** (8102-10-2016 GB) at all wall/wall, wall/floor junctions and all other areas where movement is expected. Ensure flexible fillet is dry and fully cured if used before applying membrane.
 - ◇ Ensure structural joints are sealed and applied with **MAPEBAND TPE** (2033-11-2010) in strict accordance with the TDS,
 - **APPLICATION:**
 - ◇ Prime the surface with a coat of **AQUAFLEX ROOF** diluted with 10% water.
 - ◇ Apply two dry coats of **AQUAFLEX ROOF** approximately 0.4 to 0.5 mm thick each with a suitable long-haired roller, brush or airless spray.
 - ◇ It is recommended (required when micro cracks are present) to lay **MAPETEX SEL** (911-12-2016 GB) or **MAPETEX 50** (956-10-2016 GB) reinforcement mesh into the wet first coat of the waterproofing membrane, ensuring it is completely embedded, in strict accordance with the TDS.
 - ◇ Wait until the first coat is completely dry and that it becomes slightly dark in colour (Approx. 8-12 hours) before applying the second coat in a criss-cross direction to the first.
 - ◇ Floor waterproofing membrane to be returned up wall substrates over the bond breaker/tape in accordance with AS4654.2 and the TDS, and returned down into wastes.
 - ◇ Ensure termination of membrane is in accordance with AS 4654.2.

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.com.au 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. 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.

This system is intended for light foot traffic only. Point loads larger than light foot traffic must always be evaluated by the site owner as they have the potential to damage the system.

