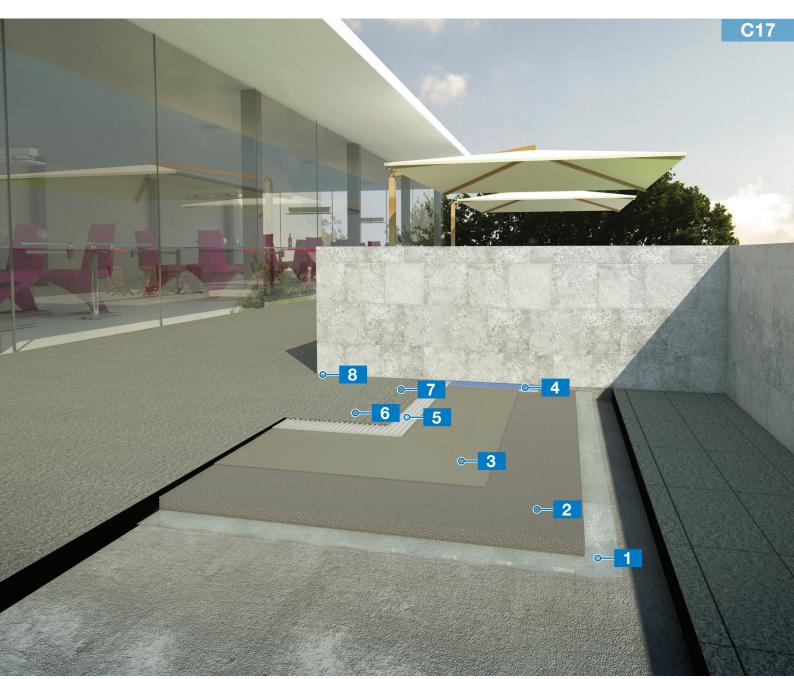






SYSTEM FOR THE INSTALLATION OF AN ANTI-**EFFLORESCENCE TILING SYSTEM**















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WORK METHOD STATEMENT

Ceramic/Stone System – Internal/External Anti-Efflorescence Tiling System

MAPEI: C17
Version: 26/08/2021
Revision: 0

PART 1 SYSTEM

1.1 INFORMATION

- This work method statement covers the system to install tiles with products that do not contribute to efflorescence, in accordance with industry best practice, relevant standards and as per MAPEI technical data sheets (TDS).
- Because of their special binder, all the cementitious products do not produce efflorescence.
 The special cements used do not generate calcium hydroxide crystals which cause
 efflorescence during the hydration process. Furthermore, the use of Mapelastic Smart will
 limit the migration of water and moisture (well known "carriers" for the efflorescence)
 throughout the tiling system.
- 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				
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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 4654.2-2012 Waterproofing membranes for external above-ground use Part 2: Design and installation
- 3. AS 3740-2021 Waterproofing of Domestic Wet Areas

B. MAPEI Technical Notebook(s):

- 1. Laying Stone Materials
- 2. Ceramic Substrate Preparation Guide
- Guide for the Installation of Ceramic Materials
- 4. Grout Troubleshooting Guide

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.

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1.4 CONCRETE 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 ENGINEERED SCREED - IF REQUIRED

A. MAPECEM PRONTO - □

Pre-blended, rapid-setting, controlled shrinkage engineered screed. Allow 3-4 hours of drying before applying subsequent product.

APPLICATION:

- ♦ Ensure a slurry coat of PLANICRETE SP mixed with MAPECEM has been applied. 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.

1.6 WATERPROOFING MEMBRANE / EFFLORESCENCE BARRIER - IF REQUIRED

- NOTE: Prior to the application of the waterproofing membrane:
 - ♦ Ensure all wall/wall & wall/floor junctions are treated with a bandage or flexible fillet, and all structural joints are detailed using the options in the below table:

	JUN	STRUCTURAL		
	BANDAGE		FLEXIBLE FILLET	JOINTS
PRODUCT	MAPEBAND EASY	MAPEBAND SA	MAPEFLEX	MAPEBAND TPE
A.			☐ - 35 mm reinforced with MAPETEX SEL	

A. MAPELASTIC SMART

Two component, Class II high flexibility cementitious mortar applied by trowel or roller for waterproofing balconies, bathrooms and swimming pools. Applied at 1 mm per coat. Certified to AS/NZS 4858:2004 and AS 4654.1-2012.

• APPLICATION:

Waterproofing membrane must be applied to floors in a minimum of two even coats.

1.7 ADHESIVE

• NOTE:

♦ 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.

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MADEI

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PRODUCT	CLASSIFICATION (AS ISO 13007-1)	SETTING SPEED
KERAPOXY ADHESIVE	C2 T	Normal Set
GRANIRAPID	C2 F S1	Rapid Set

• APPLICATION:

- ♦ 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.

1.8 GROUT

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

Grout to be chosen from the following options:

A. ULTRACOLOR PLUS - □

- GOOD SOLUTION

High-performance, anti-efflorescence, quick-setting and drying polymer-modified mortar with water-repellent technology.

B. KERAPOXY - □

- BEST SOLUTION

Two component, acid resistant epoxy grout for joints of at least 3 mm.

APPLICATION:

- 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.

• CLEANING:

- ♦ ULTRACOLOR PLUS: 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.
- ♦ KERAPOXY: After grouting, cleaning 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. KERAPOXY CLEANER is recommended for removing grout haze. Refer to TDS for further information.

1.9 SILICONE

Silicone to be chosen from the following options:

A. MAPESIL AC -

Solvent-free, acetic crosslinking mildew resistant silicone for ceramics and porcelain.

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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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



CEMENT ADDITIVES (C-ADD)

PRODUCTS FOR SPORTS FLOORING

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