

# SYSTEM FOR INSTALLATION OF PORPHYRY AND COBBLESTONES



C10

properly prepared  
concrete substrate

1

separating layer

2



installation mortar  
**Mapestone TFB 60**

3

porphyry or cobblestones  
properly prepared

4



grout  
**Mapestone PFS 2 Visco**

5



sealant  
**Mapezil LM**

6

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 porphyry and cobblestones (min 25 mm thick) on external floors, 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](http://www.mapei.com.au), or by clicking directly on the products listed within the PDF.
- 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

### 1.4 SUBSTRATE PREPARATION

1. All substrates must be structurally sound, dry, solid and stable.
2. Bonded screed applications: 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).

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.



## 1.5 INSTALLATION MORTAR

---

### A. **MAPESTONE TFB 60** -

Pre-blended mortar for the installation of screeds for architectural stone flooring, exposure classes XF4 and XS3, with high compressive strength and resistance to freeze-thaw cycles, de-icing salts and seawater.

#### • **APPLICATION:**

- ◇ Option A – Unbonded (preferred): Use a separation layer prior to laying the mortar such as PVC sheets or non-woven fabric, especially when the substrate is not particularly solid or if it is prone to cracking. Spread the mix in small areas at a time at a thickness of 50-70 mm.
- ◇ Option B - Bonded: Use a bonding slurry made from 2 parts **PLANICRETE SP** to 3 parts Portland cement, applied in a 2-3 mm thick layer and the screed applied wet-on-wet. If the area is not receiving vehicular traffic, the bedding can be installed at a thickness between 20-70 mm, taking into account stone thickness variability. Otherwise, 50-70 mm thickness is to be used.
- ◇ In both cases, lay the stones in the required pattern using a 5 to 15 mm gap around each piece.

## 1.6 GROUT

---

### A. **MAPESTONE PFS 2 VISCO** -

Pre-mixed, low viscosity, high-strength mortar with good resistance to de-icing salts, seawater and freeze-thaw cycles, exposure class XF4 and XS3, for grouting architectural flagstone and block stone paving. Available in neutral and dark grey.

#### • **APPLICATION:**

- ◇ Dampen the stones and ensure joints are free of standing water and are clean. Joints must be at least 25 mm deep.
- ◇ Mix with 3 to 3.5 litres of water per bag depending on surrounding conditions.
- ◇ Completely fill all joints between stones the same day the stone were installed (fresh on fresh).
- ◇ Remove grout residue with water and a sponge prior to it hardening.
- ◇ Protect the flooring for at least 12 hours after application.

## 1.7 SEALANT

---

**Sealant to be chosen from the following options:**

### A. **MAPESIL LM** -

Neutral mould resistant silicone sealant for stone and marble.

### B. **MAPEFLEX PU40** - **Heavy traffic applications**

Polyurethane sealants for intense traffic applications.

#### • **APPLICATION**

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



