

Eco-sustainable building materials **PHOMI MCM** using **MAPEI** building products





Recommended MAPEI adhesives for the PHOMI Modified Clay Materials, according to the product typology, for application as wall and floor tiles.

Interior	Substrate type				
Cladding type	Cement plaster	Concrete	Old ceramic tiles	Metal/wood	Aerated concrete /plasterboard
PHOMI MCM (thickness 2 - 5 mm)*	Ultralite S1	Ultralite S1	Planipatch	Ultrabond ECO PU 2K	Ultralite S1
	Ultralite S1 Quick	Ultralite S1 Quick	Ultralite S1	Keralastic	Ultralite S1 Quick
			Ultralite S1 Quick	Keralastic T	
PHOMI MCM (thickness 1 - 2 mm)**	Ultralite S1	Ultralite S1	Planipatch	Ultrabond ECO PU 2K	Ultralite S1
	Ultralite S1 Quick	Ultralite S1 Quick	Ultralite S1	Keralastic	Ultralite S1 Quick
			Ultralite S1 Quick	Keralastic T	

Exterior	Substrate type			
Cladding type	Cement plaster	Concrete	Old ceramic tiles	Aerated concrete blocks
PHOMI MCM (thickness 2 - 5 mm)*	Ultralite S1	Ultralite S1	Ultrabond ECO PU 2K	Ultralite S1
	Ultralite S1 Quick	Ultralite S1 Quick	Keralastic	Ultralite S1 Quick
			Keralastic T	
PHOMI MCM (thickness 1 - 2 mm)**	Ultralite S1	Ultralite S1	Ultrabond ECO PU 2K	Ultralite S1
	Ultralite S1 Quick	Ultralite S1 Quick	Keralastic	Ultralite S1 Quick
			Keralastic T	

* The dimension stability test has been carried out with this type of a tile: PHOMI MCM Weaving

** The dimension stability test has been carried out with this type of a tile: PHOMI MCM Wood

N.B. Read the important recommendation on page 4, please.



ULTRALITE S1

One-component, high-performance, deformable, lightweight cementitious adhesive with no vertical slip, long open time, Low Dust technology and extremely high yield easy to apply by trowel, for ceramic tiles and stone material

- ▶ **Pot life of mix:** more than 8 hours.
- ▶ **Open time:** > 30 minutes.
- ▶ **Waiting time before grouting:**
 - on walls: 4-8 hours;
 - on floors: 24 hours.
- ▶ **Set to light foot traffic:** approx. 24 hours.
- ▶ **Ready for use:** approx. 14 days.
- ▶ **Deformability according to EN 12004:** S1 - deformable.
- ▶ **Colour:** grey and white.
- ▶ **Application:** N° 4, 5, 6 or 10 notched trowel.
- ▶ **EMICODE:** EC1 R Plus - very low emission.
- ▶ **Storage:** 12 months.
- ▶ **Consumption:** 1.5-2.5 kg/m².
- ▶ **Packaging:** 15 kg bags.



ULTRALITE S1 QUICK

One-component, high-performance, deformable, lightweight, rapid-setting and hydrating cementitious adhesive with no vertical slip, good trowelability, high wetting capacity and very high yield, for ceramic tiles, stone and thin porcelain tiles.

- ▶ **Pot life of mix:** 50 minutes.
- ▶ **Open time:** ≥ 20 minutes.
- ▶ **Grouting of joints:**
 - on walls: after 2-3 hours.
 - on floors: after 2-3 hours.
- ▶ **Set to light foot traffic:** 2-3 hours.
- ▶ **Ready for use:** 24 hours.
- ▶ **Colours:** grey and white.
- ▶ **Application:** N° 4, 5, 6 or 10 notched trowel.
- ▶ **Deformability according to EN 12004:** S1 - deformable.
- ▶ **Storage:** 12 months.
- ▶ **Consumption:** 1.5-2.5 kg/m².
- ▶ **Packaging:** 15 kg bags.



PLANIPATCH

Fine-grained, ultra quick-drying, thixotropic cementitious smoothing compound for thicknesses from 0 to 10 mm, including on vertical surfaces.

- ▶ **Where to use:** internal floors and walls for ceramic, natural stone, resilient and wooden coatings.
- ▶ **Workability time:** approx. 10 minutes.
- ▶ **Thickness applied:** from 0 to 10 mm.
- ▶ **Set to light foot traffic:** approx. 2 hours.
- ▶ **Waiting time before laying:** 4-6 hours for ceramic tiles and natural stone, 12 hours for resilient coverings.
- ▶ **EMICODE:** EC1 R Plus - very low emission.
- ▶ **Colour:** grey.
- ▶ **Storage:** 12 months.
- ▶ **Application:** trowel.
- ▶ **Consumption:** 1.5 kg/m² per mm of thickness.
- ▶ **Packaging:** 25 kg bags.





ULTRABOND ECO PU 2K

Two-component, solvent-free, high performance, non-slip polyurethane adhesive with very low emission level of volatile organic compounds (VOC) for ceramic and stone tiles

- ▶ **Open time:** 20 minutes.
- ▶ **Waiting time before grouting:** 12 hours,
- ▶ **Set to foot traffic:** approx. 12 hours.
- ▶ **Ready for service:** approx. 7 days.
- ▶ **Deformability:** good.
- ▶ **Colours:** grey and white.
- ▶ **Application:** N° 4 or 5 notched spreader.
- ▶ **EMICODE:** EC1 R Plus - very low emission.
- ▶ **Storage:** 12 months.
- ▶ **Consumption:** 2.5 -5 kg/m².
- ▶ **Packaging:** 10 kg kit (A:B = 88:12 parts in weight).



KERALASTIC

Two-component, high-performance polyurethane adhesive for ceramic tiles and stone material.

- ▶ **Open time:** 50 minutes.
- ▶ **Waiting time before grouting:** 12 hours.
- ▶ **Set to light foot traffic:** approx. 12 hours.
- ▶ **Ready for use:** approx. 7 days.
- ▶ **Deformability:** highly deformable.
- ▶ **Colours:** grey and white.
- ▶ **Application:** N° 4 or 5 notched trowel.
- ▶ **Storage:** 24 months.
- ▶ **Consumption:** 2.5 -5 kg/m².
- ▶ **Packaging:** 5 and 10 kg units (A : B = 94 : 6 parts by weight).



KERALASTIC T

Two-component, high-performance polyurethane adhesive with no vertical slip for ceramic tiles and stone material

- ▶ **Open time:** 50 minutes.
- ▶ **Waiting time before grouting:** 12 hours.
- ▶ **Set to light foot traffic:** approx. 12 hours.
- ▶ **Ready for use:** approx. 7 days.
- ▶ **Deformability:** highly deformable.
- ▶ **Colours:** grey and white.
- ▶ **Application:** N° 4 or 5 notched trowel.
- ▶ **Storage:** 24 months.
- ▶ **Consumption:** 2.5 -5 kg/m².
- ▶ **Packaging:** 5 and 10 kg units (A:B = 94 : 6 parts by weight).



Important Notice:

All surfaces must be cured, dry, cohesive, free of dust, grease, oils, corrosion, paint, glue residues and gypsum at the time of application. The substrate moisture must not exceed 3%, for gypsum substrates must not exceed 0.5%.

Expansion field recommended size: 9-16m² for the exterior, 25m² for the interior application. In exterior the expansion joint should be filled with **Mapesil LM**, neutral silicone sealant.

Cement plaster must be cured and dry (curing time min. 1 week / 1 cm layer thickness), min. surface layer adhesion 1.0 N/mm².

Monolithic reinforced concrete structures must be matured for at least 3 months, min. surface layer adhesion 1.0 N/mm². Rinse the surface with high pressure water jet or sandblast before the application. Cracks must be filled with **Adesilex PG1**, epoxy adhesive.

Aerated concrete blocks (e.g. YTONG, etc.) and plasterboard must be treated beforehand with **Primer G** diluted with water 1:1 (2 coats) in the interior; in the exterior, at first cement plaster must be applied on the surface, the plaster must be reinforced with galvanized steel welded mesh min. Ø 2mm with lugs 50 / 50mm, anchored to the base. Min. surface layer adhesion 1.0 N/mm².

In the exterior, the method of back buttering (adhesive application both on the substrate and the back side of the tiles) must be used.

Use the adhesives of class S1 up to 3 600cm² (longest side 600mm), for bigger formats it is necessary to use the deformability class S2 (e.g. **Ultralite S2**). Max. format in the exterior is 150 x 50 cm (or 7 500 cm²).

The joints in the exterior must be filled with grout, the width of the joints in the interior is min. 2mm, in the exterior min. 4mm.

All technical documentation of the proposed products is available at www.mapei.com.

Mapei spol. s.r.o. offers free technical service during the construction preparation and realization (training and testing on site and consultations with designers and architects).

