

A GUIDE TO EXTERNAL FLOOR TILING



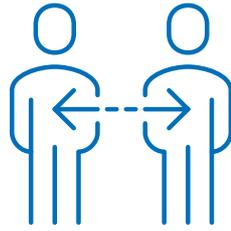


MAPEI PRODUCTS IN THIS GUIDE HAVE BEEN SPECIALLY SELECTED TO CREATE SYSTEMS FOR THE INSTALLATION OF EXTERNAL TILING OF DOMESTIC AND COMMERCIAL PATIOS, BALCONIES AND PUBLIC SPACES. PROPERTY SYSTEMS, AND BRITISH STANDARDS AS WELL AS ADVICE FROM THE INSTALLER WILL ENSURE THE LONGEVITY OF THE EXTERNAL APPLICATION.

A GUIDE TO EXTERNAL FLOOR TILING

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External Tiling: an introduction

The **popularity of external tiling has increased** over the years due to the **ever-growing quality and range** of products available.

The **advantageous properties of porcelain** such as being **hardwearing, scratch and stain resistant**, make it perfect for external applications. Porcelain tiles, specifically 20mm Porcelain, have quickly become a go to for those seeking to improve the appearance of their outdoor space.

As a result of this surge in popularity, fixing methods have been assessed and improved to **ensure durable and aesthetically pleasing results**.



Weather Implications

Prior to proceeding with any external project, **environmental implications** such as **weather and temperature** must be taken into consideration. The most favourable temperature range for satisfactory installation utilising normal methods of fixing is between +5°C and +25°C.

The effects of weather conditions are commented on throughout the British Standards applicable to Tiling (BS5385), explicitly stating that when work is carried out externally **“work should be protected both during and after completion from frost or other unfavourable weather conditions.”** (BS 5385 Part 3, 2014, 10).

During periods of inclement weather suitable precautions are to be taken or installation must be suspended until conditions improve.







Standards & Recommendations

BS 5385-3:2014

Wall and floor tiling. Design and installation of internal and external ceramic and mosaic floor tiling in normal conditions - Code of practice.

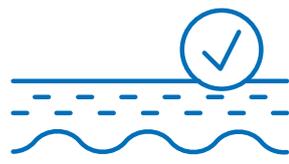




BS 5385-5:2009

Wall and floor tiling. Design and installation of terrazzo, natural stone and agglomerated stone tile and slab flooring - Code of practice.





Substrate & Preparation

Type 1 MOT & Stone Chippings

Without suitable preparation and compaction Type 1 MOT is not suitable for application. Therefore, it is advisable to tile onto a solid base. Through accurate testing Mapei UK have found the following fixing method to be sufficient to provide a solid base for tiling; **Type 1 MOT should be compacted** using suitable mechanical means, such as a Wacker Plate, to create a solid base of approx. 200mm.

This is to be **overlaid with Stone Chippings** (8mm) compacted using suitable mechanical means such as a Wacker Plate to a solid base of approx. 50-80mm

Ensure that falls are created to allow for adequate drainage.

Apply **Mapei ADESILEX P4**, using a 20mm notched trowel, to the back of a porcelain tile (20mm 600 x 600mm) adopting the combing method and **lay the tiles directly** onto the compacted stone chippings.

Using a rubber mallet and level wedges, ensure the tiles are **sufficiently compressed and level** at the joint with a 5mm minimum grout joint.

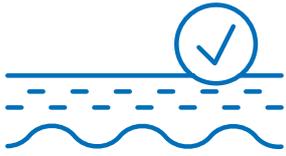
Mapei ULTRACOLOR PLUS* can be used to grout the tiling once the adhesive has cured. Alternatively, **Mapei MAPEDRAIN 1K FUGE** can be installed.

**Mapei ULTRACOLOR PLUS cannot be jet washed*

**Appropriate falls are to be created to allow for drainage away from property*

Scenarios:

- Patios
- Paths
- Gardens



Substrate & Preparation

TFB60 Slurry Bond

Prior to installation the substrate will need to be prepared/installed in line with requirements for its intended stresses and loads - (e.g. a concrete floor slab with metal reinforcement mesh).

Mapei MAPESTONE TFB60 is to be installed at a minimum thickness of 50mm .

Laying stone slabs up to 100mm thick, a **Mapei PLANICRETE** and **Mapei MAPESTONE TFB60 slurry is to be applied to the back of the slabs**, taking care not to cover the edges of the slab as this can make handling awkward and slippery.

Ratio for the slurry mix – **1kg Mapei PLANICRETE, 1kg water, 3-4kg Mapei MAPESTONE TFB60.**

In case of stone slabs in excess of 100mm, **Mapei PLANICRETE** slurry is not required. This is due to the weight of the slab being sufficient for solid bonding.

Mapei MAPESTONE is designed to create a monolithic bond. In order to achieve this, the slurry backed slab is compressed into the wet **Mapei MAPESTONE TFB60** screed, the compression of the stone (using a rubber mallet) should force the **Mapei PLANICRETE** slurry out of the edges of the slab. The joints between the slabs should be 5-15mm in width and can be filled with a suitable **Mapei** jointing mortar , such as **Mapei MAPESTONE PFS2.**

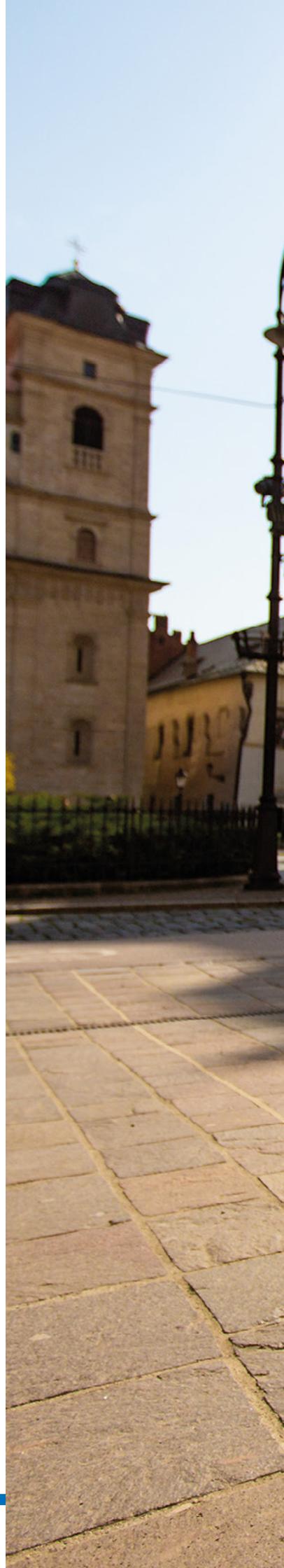
Porcelain slabs to be a minimum 20mm thick, stone slabs to be a minimum 30mm thick.

For vehicular use, the slabs must be at least 100mm thick (*concrete substrates required for heavy loading*).

NOTE: Appropriate falls are to be created to allow for drainage away from property

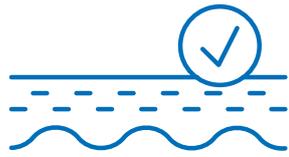
Scenarios:

- Patios
- Paths
- Gardens
- Driveways
- Pedestrian walkways
- Courtyards









Substrate & Preparation

Levelled Concrete

Prior to installation the substrate will need to be prepared/ installed in line with requirements for its intended stresses and loads.

A newly installed concrete slab is **to be left for at least 6 weeks** prior to any installation, this is to allow for initial shrinkage of the material to take place.

Concrete can be **tiled onto directly using a suitable Mapei tile adhesive** for the selected tile, such as **Mapei KERAQUICK S1**. Existing concrete may need abrading to **remove any surface contamination** or curing agents that may impede the adhesive bond.

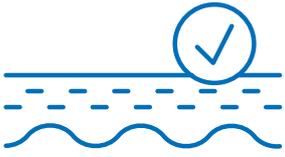
Once thoroughly cleaned, the existing concrete can be tiled directly onto (providing no surface water is present).

Uneven concrete may be levelled* using **Mapei ADESILEX P4** (to a max of 20mm).

NOTE: Appropriate falls are to be created to allow for drainage away from property

Scenarios:

- Patios
- Terraces
- Balconies
- Paths
- Walkways
- Courtyards



Substrate & Preparation

Topcem/Mapecem

Prior to installation the substrate will need to be prepared/installed in line with requirements for its intended stresses and loads.

Screeds containing **Mapei TOPCEM** or **Mapei MAPECEM** binders can be installed externally over cured concrete.

This would require a bonded screed installation of a minimum of 10mm. For 10-50mm screeds, bond using a slurry consisting of 3 parts **Mapei TOPCEM**, 1 part **Mapei PLANICRETE** and 1 part water by weight.

For screeds 50mm or thicker, bond using **Mapei EPORIP** two component epoxy resin bonding agent.

In the case of asphalt, an unbonded screed can be installed at a minimum thickness of 35mm and then tiled directly onto.

Mapei MAPEGUARD UM 35 can be installed over the top of a screed using a suitable **Mapei** adhesive such as **Mapei KERAQUICK S1** or **Mapei ULTRALITE RAPID FLEX S1**, for waterproofing and antifracture properties. Ceramic, porcelain or stone tiles can be installed over the top of the installed membrane using a suitable **Mapei** tile adhesive.

*NOTE: Appropriate falls are to be created to allow for drainage away from property. When **Mapeguard UM35** is being used as a waterproofer, the joints should be suitably taped as per products guidelines..*

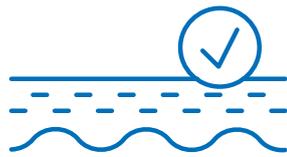
Scenarios:

- Patios
- Balconies
- Walkways - apartments
- Courtyards









Substrate & Preparation

Corrosion Free Metal

Prior to installation the substrate will need to be prepared/ installed in line with requirements for its intended stresses and loads.

When bonding **directly to a metal substrate**, a cement based adhesive will not be suitable. An epoxy based adhesive, such as **Mapei KERAPOXY** at a maximum bed depth of 10mm, or a polyurethane based adhesive such as **Mapei KERALASTIC** at a maximum bed depth of 3mm will be required.

When using these products it is important for the external temperature to be between +10 and +30°C during application and curing.

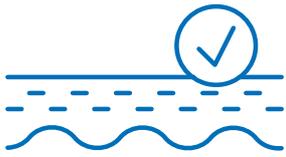
The above adhesives are suitable for bonding ceramic, porcelain and natural stone tiles or mosaics on balconies, external terraces, domes or flat roofs subject to foot traffic.

In some instances a screed may be required; in this case refer to the guidelines for screeds containing **Mapei TOPCEM/MAPECEM** binders. An epoxy bonding agent will be required for installation of a bonded screed such as **Mapei EPORIP**.

** Appropriate falls are to be created to allow for drainage away from property*

Scenarios:

- Steps
- Balconies



Substrate & Preparation

Fibreglass

Prior to installation the substrate will need to be prepared/ installed in line with requirements for its intended stresses and loads.

When **fibreglass has been installed** to a suitable substrate, tiling can be carried out in 2 ways:

Tiling directly:

If the fibreglass is textured and **has anti-slip properties**, a suitable cement based adhesive can be applied directly to the surface.

However an epoxy based adhesive, such as **Mapei KERAPOXY**, or a polyurethane based adhesive such as **Mapei KERALASTIC** would be required if the **fibreglass does not have an aggregated surface**.

Preparing fibreglass for cement based adhesives:

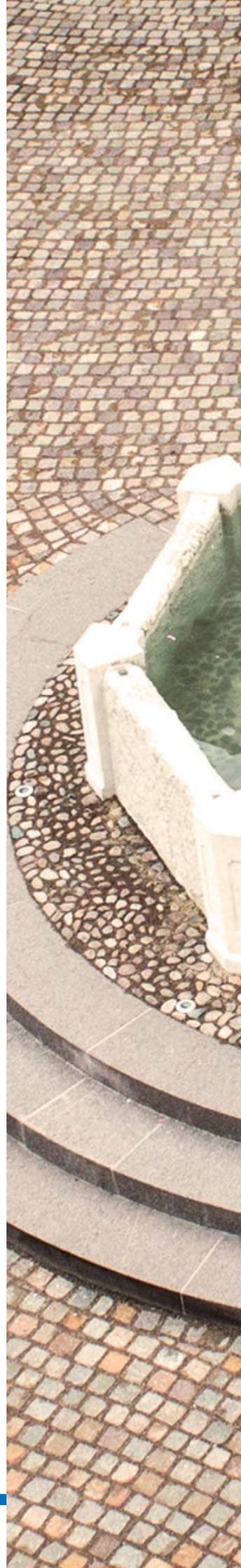
Apply **Mapei EPORIP** to the surface of the non-textured fibreglass, then broadcast quartz sand over the **Mapei EPORIP** while it is still wet. Allow to cure for a **minimum of 24 hours**, ensuring that the prepared area is protected from cold, direct sunlight and rain.

Once cured, vacuum off the excess quartz, this will provide a suitable key for cement based adhesives such as **Mapei KERAQUICK S1** incorporating **Mapei LATEX PLUS**.

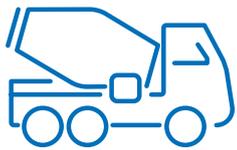
NOTE: Appropriate falls are to be created to allow for drainage away from property

Scenarios:

- Balconies
- Walkways
- Non marine life water features







Topcem

DESCRIPTION

Special hydraulic binder for normal setting, fast drying (4 days) and controlled shrinkage screeds

A special hydraulic binder which, when mixed with graded aggregates and water, can produce screeds that can harden in approximately 24 hours, and dry in approximately 4 days.



POT LIFE OF THE MIX	60 minutes
SET TO LIGHT FOOT TRAFFIC	Approx. 12 hours, at +20°C
CONSUMPTION	2-2.5 kg/m ² per cm of thickness
STORAGE	12 months

READY FOR USE	24 hours for ceramic tiles 2 days for stone material 4 days for waterproofing membranes
COLOURS	Grey
EMICODE	EC1 Plus - very low emission
PACKAGING	20 kg bags



RAPID CURING

light foot traffic after 12 hours
24 hours for ceramic tiles
2 days for stone material
4 days for resilient and for wood



SITE MIXED

RECOMMENDED DOSAGE
Topcem binder 250 kg/m³
Recommended mix design: 0/8 mm aggregate 1750 kg/m³ Topcem binder 250 kg/m³ Water 100 kg/m³
Note: Water content may vary according to the moisture content of the aggregate.



PUMP APPLICATION

perfect for covering large area



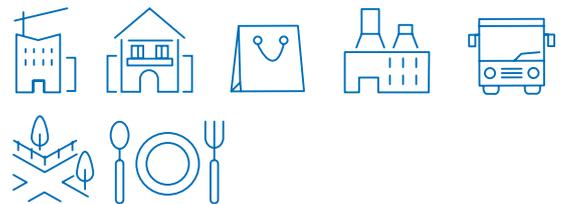
HIGH MECHANICAL STRENGTH

after 28 days has a compressive strength of >30 N/mm²

WHERE TO USE

- Bonded, unbonded and floating screeds
- existing and new concrete
- Interior and exterior use.

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES





Topcem Pronto

DESCRIPTION

Ready-to-use, normal-setting, controlled-shrinkage mortar with high thermal efficiency for quick-drying (4 days) screeds.

For forming screeds on new and existing slabs in interiors and exteriors prior to installing ceramic tile, natural stone or other floor coverings in areas where fast-drying screeds are required in order to lay floorings in a short time.



POT LIFE OF THE MIX	60 minutes
SET TO LIGHT FOOT TRAFFIC	Approx. 12 hours, at +20°C
READY FOR USE	24 hours for ceramic tiles 2 days for stone material 4 days for waterproofing membranes

COLOURS	Grey
EMICODE	EC1 Plus - very low emission
STORAGE	12 months
CONSUMPTION	18-20 kg/m ² per cm of thickness according to the grade of compacting
PACKAGING	25 kg bags



PRE-BLENDED

ready to use with aggregate already dosed and included



EASY TO USE

Just mix with water



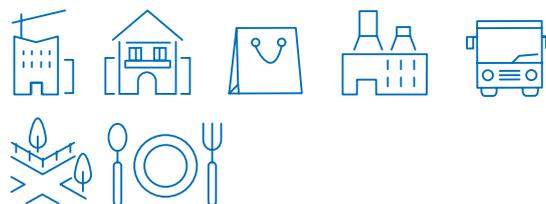
RAPID CURING

light foot traffic after 12 hours
24 hours for ceramic tiles
2 days for stone material

WHERE TO USE

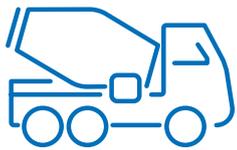
- To form heated screeds
- Repairing screeds in areas where it is required to lay flooring in a short time
- Interior and exterior use.
- Floors in areas subject to intense traffic (airports, shopping centres, restaurants, etc.).

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES





Mapecem

DESCRIPTION

Special quick-setting and drying (24 hours), controlled-shrinkage hydraulic binder for screeds.

Preparation of screeds on existing and new slabs for the installation of ceramic tiles, or any other flooring where fast-drying is required for minimum downtime.



POT LIFE OF THE MIX	20 - 30 minutes
SET TO LIGHT FOOT TRAFFIC	2-3 hours
READY FOR USE	3 hours for ceramic tiles and stone materials 24 hours for waterproofing membranes

COLOURS	Grey
EMICODE	EC1 Plus - very low emission
STORAGE	12 months
CONSUMPTION	3.5-4.5 kg/m ² per cm of thickness
PACKAGING	20 kg bags



HIGH MECHANICAL STRENGTH
after 28 days has a compressive strength of >47N/mm²

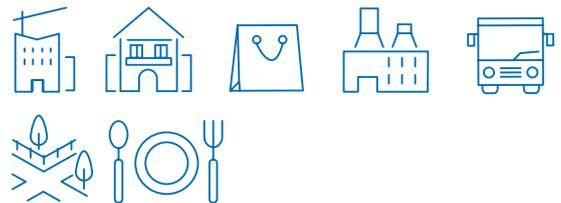


RAPID CURING
light foot traffic after 12 hours
24 hours for ceramic tiles
2 days for stone material

WHERE TO USE

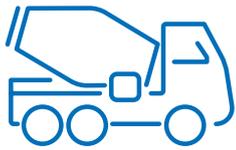
- Preparation of screeds ready to receive ceramic tiles and natural stone.
- Patching and repairing screeds in areas subject to continuous traffic.
- Interior and exterior use.
- Preparation of screeds incorporating underfloor heating systems.

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES





Mapecem Pronto

DESCRIPTION

Pre-blended, ready-to-use, quick-setting and drying (24 hours), controlled-shrinkage mortar for screeds.

For forming internal and external floating and bonded screeds on old, new and existing floor slabs, for laying ceramic, natural stone and any other type of floor covering where quick drying is required for immediate laying of the floor covering.



POT LIFE OF THE MIX	20 - 30 minutes
SET TO LIGHT FOOT TRAFFIC	2-3 hours
READY FOR USE	3 hours for ceramic tiles and stone materials 24 hours for waterproofing membranes

COLOURS	Grey
EMICODE	EC1 Plus - very low emission
STORAGE	12 months
CONSUMPTION	20 kg/m ² per cm of thickness
PACKAGING	25 kg bags



PRE-BLENDED

ready to use with aggregate already dosed and included



EASY TO USE

Just mix with water



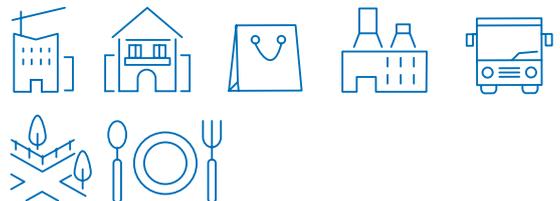
RAPID CURING

light foot traffic 2-3 hours
3 hours for ceramic tiles and stone material

WHERE TO USE

- Bonded and unbonded screeds.
- Repairs and renovations to screeds.
- Interior and exterior use.
- Floors in areas subject to intense traffic (airports, shopping centres, restaurants, etc.).

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES





Planicrete

DESCRIPTION

Synthetic-rubber latex to improve the adhesion of cement mixes

A highly stable water dispersion of a special synthetic elastomer resistant to alkaline saponification, characterised by its low glass transition temperature. This special SBR (styrene-butadiene rubber) based elastomer also has a special property which makes it stable after ageing.



COLOURS

White

PACKAGING

5kg, 10kg and 25 kg bottles

STORAGE

24 months



MAPESTONE TBF60 SYSTEM

When mixed with a Mapestone product creates a bonding slurry



MAPECEM / TOPCEM

When mixed with improves the adhesion



MAPECEM PRONTO / TOPCEM PRONTO

When mixed with improves the adhesion

WHERE TO USE

- As an admixture to improve the mechanical and adhesive characteristics of cement-based screeds, renders and thin smoothing layers
- As an admixture for highly adhesive cement bonding slurries

AREAS OF USE





Eporip

DESCRIPTION

Two-component solvent-free epoxy bonding agent

The consistency of a slightly thixotropic paste that can be applied by brush on both horizontal and vertical surfaces.



POT LIFE OF MIX 40 - 90 minutes depending on temperature

OPEN TIME 1 hour 30 minutes - 6 hours depending on temperature

SET TO LIGHT FOOT TRAFFIC after 24 hours

READY FOR USE fully cured after 7 days

COLOUR Grey

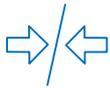
STORAGE 24 months

CONSUMPTION See Technical Data Sheet

PACKAGING 10 kg and 2kg kits



THIXOTROPIC
Can be applied to walls with no vertical slip

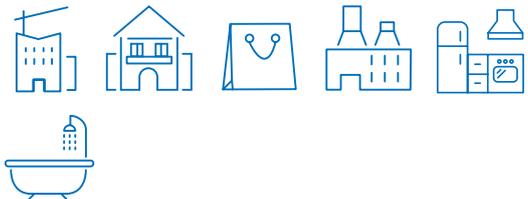


HIGH MECHANICAL STRENGTH
Allowing metal to be bonded to the repaired concrete

WHERE TO USE

- Bonding agent for screeds and tiling.
- Monolithic construction joints between fresh and hardened concrete.
- Bonding precast concrete elements.
- Bonding steel to concrete.
- Filling cracks in concrete.
- Construction joints for the structural reinforcement of beams and pillars.

AREAS OF USE





Mapestone TFB60

DESCRIPTION

Pre-blended mortar for installation screeds for architectural stone paving

High-performance mortar in exposure class XF4 and XS3, with high mechanical strength and good resistance to de-icing salts, freeze-thaw cycles and seawater for grouting architectural stone paving in class P4, P5, P6, P7, P8, P9 according to standard UNI 11714-1:2018.



WAITING TIME BEFORE CLEANING	after 12 hours
SET TO LIGHT	
FOOT TRAFFIC	12 - 24 hours
READY FOR USE	can receive vehicle traffic after just 7 days

COLOURS	Grey
STORAGE	12 months
CONSUMPTION	20 kg/m ² per centimetre of thickness
PACKAGING	25 kg bags



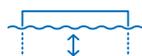
EASY TO USE

Just add water. No need to add binders or aggregate.



MONOLITHIC INSTALLATION

Wet on wet installation process allowing a continuous single bond throughout.



HIGH BED CAPABILITY

Min of 50mm bed depth

WHERE TO USE

- Small blocks, cobble stones, slabs and blocks.
- Parking lots, pedestrian areas.
- Driveways, patio areas

AREAS OF USE





Mapestone PFS 2

DESCRIPTION

Pre-blended mortar for grouting architectural stone floors

A pre-mixed, ready-to-use powder mortar for the grouting of joints of external natural stone paving and road finishes suitable for vehicular use. Part of the Mapestone system, which allows to realize architectural stone paving with high durability even in environments subjected to the weather.

POT LIFE OF THE MIX

40 minutes

SET TO LIGHT FOOT TRAFFIC

12 - 24 hours

READY FOR USE

7 days

COLOURS

basic and grey

STORAGE

12 months

CONSUMPTION

dependent on joint width/depth

PACKAGING

25kg bag



WEATHERPROOF

Can be subjected to subject to rain, to freeze and thaw cycles in the presence of de-icing salts



PRE-MIXED

No need to add additional binders or aggregate



EASY TO USE

Just add water



MECHANICAL MIX

Use a mechanical mixer eg. concrete mixer, mixing drill

WHERE TO USE

- Roads and carparks
- Pedestian areasl.
- Small blocks
- Cobbelstones

AREAS OF USE





Adesilex P4

DESCRIPTION

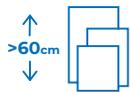
High performance, rapid-setting, full contact, cementitious adhesive for ceramic tile and stone material installations; smoothing compound for interiors and exteriors.

Full contact, rapid setting pourable adhesive for the interior and exterior bonding of all types of medium and large sized ceramic and stone floor tiles in environments subject to heavy traffic.



POT LIFE OF THE MIX	60 minutes
GROUTING AFTER	4 hours
SET TO LIGHT FOOT TRAFFIC	4 hours
READY FOR USE	24 hours

COLOURS	Grey
EMICODE	EC1 Plus - very low emission
STORAGE	12 months
CONSUMPTION	approx. 3-5 kg/m ²
PACKAGING	20 kg bags



LARGE TILES

bonding of most types of medium and large porcelain, ceramic tiles, natural stone, terracotta and terrazzo



RAPID SETTING

When being used as a tile adhesive grouting can be carried out after 4 hours



LEVELLING & SMOOTHING

Can also be used to level differences of 2mm - 20mm on internal and external substrates.



WEATHERPROOF

water resistant and frost resistant



EASY TO USE

Just add water to create a pourable mixture that aids in easy application of the product

WHERE TO USE

- All types of ceramics and porcelain.
- Interior and exterior use.
- Floors.
- Suitable with 20mm porcelain
- Balconies.
- Floors in areas subject to heavy traffic (airports, shopping centres, restaurants, etc.).

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES



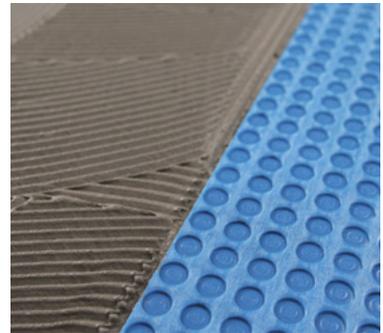


Mapeguard UM 35

DESCRIPTION

Waterproofing, uncoupling and anti-fracture membrane.

Installation on internal and external substrates as an uncoupling and anti-fracture membrane for laying ceramic, porcelain and natural stone flooring on difficult, cracked substrates and on substrates that are not fully cured.



COLOURS

Blue

PACKAGING

30m x 1m roll



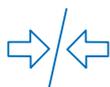
CRACK CONTROL

the control of cracks in the substrate, acting as an anti-fracture membrane and as an uncoupling element that prevents transmission of substrate cracks to the flooring



VAPOUR CONTROL

thanks to the air channels on the back of the membrane, the moisture in the underlying layers can evaporate



MECHANICAL STRENGTH

allows the distribution of stresses on floorings subject to heavy loads; it is certified as EXTRA HEAVY COMMERCIAL RATING



IMPROVED ADHESION

The special shape of the embosses offers a perfect mechanical bonding of the adhesive



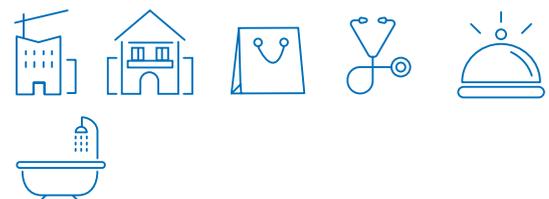
WATERPROOF

Completely waterproof with the capacity to protect substrates from infiltrations of water and increase their durability.

WHERE TO USE

- Cracked and not fully cured substrates.
- New residential buildings and residential buildings being renovated
- Cementitious screeds with heating systems.
- Interior and exterior use.
- Floors in areas subject to high traffic (hospitals, hotels, restaurants, etc.).

AREAS OF USE





Keraquick S1

DESCRIPTION

High-performance, quick-setting, deformable cementitious adhesive

Bonding to cement-based and calcium sulphate based screeds, concrete, plywood overlaid floors, existing unglazed ceramic floor tiles, cement-based renders, gypsum plaster, plasterboard, tilebacker boards.



POT LIFE OF THE MIX	30 minutes
OPEN TIME	15 - 20 minutes
SET TO LIGHT FOOT TRAFFIC	2 - 3 hours
READY FOR USE	24 hours

COLOURS	Grey and white
EMICODE	EC1 Plus - very low emission
STORAGE	12 months
CONSUMPTION	2-5 kg/m ²
PACKAGING	5kg, 10kg and 20 kg bags



RAPID SETTING

grouting after only 2 hours, light foot traffic after only 2 hours and fully serviceable after 24 hours



HIGHLY FLEXIBLE

when mixed with water the adhesive meets S1 deformability but when mixed with **Mapei Latex Plus** improves to S2



UNDERFLOOR HEATING

suitable for use over underfloor heating systems

WHERE TO USE

- Ceramic and porcelain tiles and mosaics.
- Non-moisture sensitive natural stone.
- Interior and exterior use.
- Floors and walls.
- Swimming pools, façades and balconies.
- Floors and walls in areas subject to intense traffic (airports, shopping centres, restaurants, etc.).

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES





Latex Plus

DESCRIPTION

Latex admixture that improves flexibility.

Water dispersion of an extremely flexible polymer with low viscosity to be mixed with **Mapei Keraquick S1** to improve its deformability and bond strength.



POT LIFE OF THE MIX

30 minutes

OPEN TIME

10 - 15 minutes

SET TO LIGHT FOOT TRAFFIC

2-3 hours

READY FOR USE

24 hours

COLOURS

White

STORAGE

24 months

CONSUMPTION

See Technical Data Sheet

PACKAGING

1.5kg, 3kg and 6kg bottle



EASY TO USE

use as water substitute
Add a 6kg bottle of **Mapei Latex Plus** to a 20kg bag of **Mapei Keraquick S1**.



IMPROVES PERFORMANCE

Upgrades **Mapei Keraquick S1** to S2 classification



WEATHERPROOF

Temperature when in use: from -30°C to +90°C
freeze thaw resistant

WHERE TO USE

- Mix with Keraquick S1 to achieve S2.
- Interior and exterior use.
- Floors and walls.
- Balconies, terraces.

AREAS OF USE



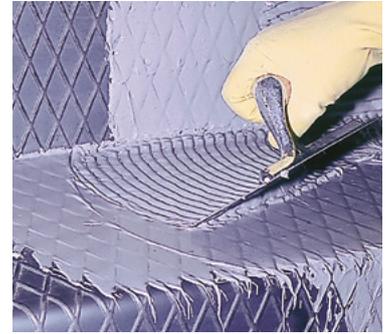


Keralastic

DESCRIPTION

High performance two-component polyurethane adhesive.

For bonding ceramic, porcelain, and natural tiles or mosaics to difficult substrates.



POT LIFE OF THE MIX

30 - 40 minutes

SET TO LIGHT FOOT TRAFFIC

12 hours

READY FOR USE

7 days, at +20°C

COLOURS

White and grey

STORAGE

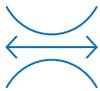
12 months (for 25 kg bags)

CONSUMPTION

approx. 2.5-5 kg/m²

PACKAGING

5kg and 10kg kits



FLEXIBLE

Can be used in areas subject to movement, vibration and weather related shrinkage and expansion



WATER RESISTANT

Suitable for use in wetrooms and bathrooms



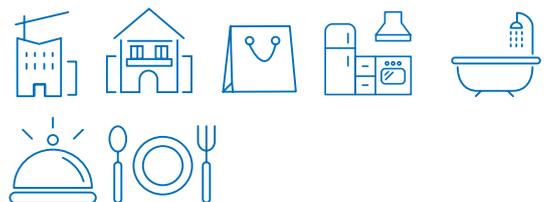
EASY TO USE

Pre-measured comp B to be mixed with comp A

WHERE TO USE

- All types of ceramics.
- Marble and stone material.
- On to metal, wood, and gypsum substrates .
- Interior and exterior use.
- Floors and walls.
- Existing flooring

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES



Mapedrain 1K Fuge

DESCRIPTION

Single component, ready-to-use polybutadiene-based drainage mortar for grouting paved floors with joints at least 5 mm wide in light duty installations.

Grouting all types of internal and external paved floors (klinker, cement-based composites, porphyry slabs and blocks, etc.) subject to light traffic.

POT LIFE OF THE MIX	Approx. 45 minutes, at +20°C
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours, at +20°C
READY FOR USE	7 days, at +20°C

APPLICATION	MAPEI rubber trowel or rake
COLOURS	Grey, sand, anthracite
STORAGE	12 months
PACKAGING	25 kg drum



FLEXURAL STRENGTH

Can be used in areas subject to movement, vibration and weather related shrinkage and expansion



WEATHERPROOF

The product has high permeability, the joints are resistant to freezing and bad weather



EASY TO USE

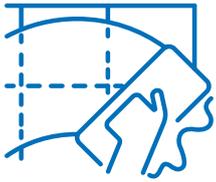
Single component and ready to use straight out of the drum

WHERE TO USE

- All types of ceramics and stone material.
- Steps, pavements and terraces laid directly on the ground for domestic use
- Courtyards and pedestrian entrances, including vehicle entrances, subject to light traffic

AREAS OF USE





Ultracolor Plus

DESCRIPTION

Mould-resistant and water-repellent coloured grout

High-performance, anti-efflorescence, quick-setting and drying polymer-modified mortar with water-repellent DropEffect® and mould-resistant BioBlock® technology for grouting joints from 2 to 20 mm wide.



POT LIFE OF MIX	20-25 minutes
WAITING TIME FOR FINISHING	15-30 minutes
SET TO LIGHT FOOT TRAFFIC	3 hours
READY FOR USE	After 24 hours (48 hours for swimming pools)

COLOURS	See Technical Data Sheet
EMICODE	EC1 Plus - very low emission
STORAGE	12 months (for 23 kg bags) 24 months (for 2 and 5 kg bags)
CONSUMPTION	According to the size of the joints
PACKAGING	23 kg bags 4x5 kg or 8x2 kg Alupack boxes depending on the colour



MOULD-RESISTANT

BioBlock® technology prevents the formation of the micro organisms that form mould at the root.



WATER-REPELLENT

Low dirt pick-up. The **DropEffect®** technology reduces water and liquid absorption making grouts easier to clean.



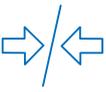
ANTI-EFFLORESCENCE

It does not form any efflorescence and guarantees that colours remain uniform without stains and remain stable over the years.



QUICK-SETTING AND DRYING

Set to light foot traffic after 3 hours, quickly ready for use.



HIGH RESISTANCE

Excellent resistance to abrasion, compression, flexural stress and to freeze-thaw cycles.



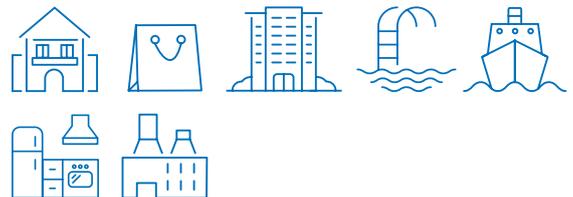
WIDE RANGE OF COLOURS

Colours are resistant to UV rays and atmospheric agents.

WHERE TO USE

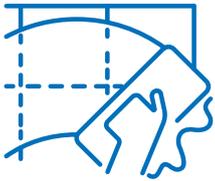
- All types of ceramic and porcelain tiles.
- Marble and stone material.
- Marble and glass mosaic.
- Interior and exterior use.
- Floors and walls.
- Swimming pools, façades and balconies.
- Floors and walls in areas subject to intense traffic (airports, shopping centres, restaurants, etc.).

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES





Kerapoxy

DESCRIPTION

Epoxy mortar suitable for kitchens and for the food industry

Two-component, high-performance, acid-resistant epoxy mortar and adhesive with no vertical slip for installing and grouting ceramic tiles and stone material. For joints from 3mm to 10mm wide. Available in 20 colours.



POT LIFE OF MIX	45 minutes
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours
READY FOR USE	4 days Surfaces can undergo chemical attack after 4 days

WAITING TIME BEFORE CLEANING	clean immediately, before the product dries.
COLOURS	See Technical Data Sheet
EMICODE	EC1 Plus - very low emission
STORAGE	24 months
CONSUMPTION	According to the size of the joints
PACKAGING	15kg & 10kg kits and 12x2kg boxes



WATER-REPELLENT

Low dirt pick-up. A smooth final surface with low water absorption, therefore easy to clean; ensures hygiene



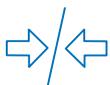
ANTI-EFFLORESCENCE

It does not form any efflorescence and guarantees that colours remain uniform without stains and remain stable over the years.



QUICK-SETTING AND DRYING

24hrs
ready for use after 4 days



HIGH RESISTANCE

Excellent resistance to abrasion, compression, flexural stress and to freeze-thaw cycles.



WIDE RANGE OF COLOURS

Colours are resistant to UV rays and atmospheric agents.

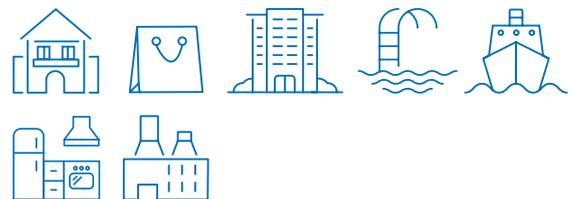


GOOD RESISTANCE TO ACIDS

WHERE TO USE

- All types of ceramic and porcelain tiles.
- Marble and stone material.
- Marble and glass mosaic.
- Interior and exterior use.
- Floors and walls.
- Swimming pools, façades and balconies.
- Floors and walls in areas subject to intense traffic (airports, shopping centres, restaurants, etc.).

AREAS OF USE



CERTIFICATIONS & TECHNOLOGIES



MAPEI WORLD LONDON CITY

6 Great Sutton Street
Clerkenwell
London
EC1V 0BX
020 3302 9610
clerkenwell@mapei.co.uk

MAPEI UK LTD

Mapei House
Steel Park Road
Halesowen
West Midlands. B62 8HD
0121 508 6970
info@mapei.co.uk



0121 508 6970 | mapei.co.uk

