





HIGH PERFORMANCE, DURABLE, HYGIENIC,
DIRT- AND MOULD-PROOF GROUTS AND
SEALANTS, FOR EASY-TO-CLEAN, SOUND FLOOR
AND WALL COVERINGS. MAPEI GROUTS COME IN
THE PERFECT COLOUR FOR EVERY SETTING

GROUTS AND SEALANTS

for installing ceramic tiles and stone material

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ICONS LEGEND



RESIDENTIAL ENVIRONMENTS



SPAS & WELLNESS AREAS



COMMERCIAL ENVIRONMENTS



MARINE INDUSTRY



INDUSTRIAL ENVIRONMENTS



FAÇADES



SWIMMING POOLS



SURFACES USED BY VEHICLES



KITCHENS AND FOOD INDUSTRY



PUBLIC SPACES



BATHROOMS

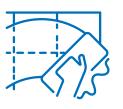


LANDSCAPING









Grouting: functionality and creativity

Elegant marble floors, porcelain with a design finish, refined mosaics: every type of covering is more complete with the right grouting. A technical detail that plays a key role in the **functionality and durability of surfaces** which, at the same time, offers us the **chance to be creative** and to create an ambience with its own unique character and personality.

Through its extensive range of coloured grouts, Mapei has found the way to meet the requirements of such a well-established market, the ceramics and natural stone market, which is in constant evolution with the development and introduction of new materials, new tile formats and increasingly higher expectations in terms of functionality and aesthetics.

From refined, elegant spaces in hotels and public spaces to damp surroundings such as bathrooms and swimming pools, from façades covered with large format stone and porcelain tiles to commercial and industrial settings used by intense levels of traffic and exposed to aggressive chemicals: Mapei has the capacity to propose the most appropriate solution for any situation and to guarantee performance properties, durability and aesthetics while safeguarding the healthiness of the surroundings, in line with the concept of a more sustainable building industry.



Classification of mortars for grouting ceramic and stone material according to EN 13888 standard

As with adhesive, a grouting product must be chosen so that it meets well defined requirements which vary according to where it is being installed, its final type of use and the type of covering material. Euronorm EN 13888 divides grouting mortars into **cementitious grouts (CG)** and **epoxy grouts (RG)**. Cementitious grouts are divided into two main classes **CG1 (normal)** and **CG2 (improved)**, which are followed by special classes **A (high abrasion resistance)** and **W (low water absorption)**.

Cementitious grouting mortars

Normal (CG1)

They may be considered sufficient for installing ceramic or porcelain tiles not subject to excessive variations in temperature and humidity in residential and commercial environments.

Improved (CG2)

Specially developed to adapt to various site conditions, they have numerous advantages compared with class CG1 grouts:

- Resistance to temperature variations (installation on heating substrates or exterior substrates).
- Good compatibility with deformable adhesives (such as when installing large-format tiles).

In addition to traditional applications, they are therefore recommended for areas subject to high humidity and thermal shocks or intense traffic, conditions typically found in high-intensity commercial and industrial environments.

Class A - High abrasion resistance

It is required when the area is subject to intense foot or trolley traffic, such as in supermarkets.

Class W - Low water absorption

W-class products are recommended for **installations subject to continuous immersion in water**, such as tiling in fountains and swimming pools.

Improved class

Cementitious grouting mortars made by **Mapei** are all part of the improved class of grouts **CG2WA** and, as such, are guaranteed when used in particularly critical site conditions.



Epoxy grouting mortars

Two-component epoxy resin-based products.

Advantages

- High mechanical resistance.
- High resistance to aggressive chemicals.

Epoxy grouting mortars are normally used when particularly hygienic surfaces are required, or if there are particular strength or chemical resistance requirements. They are particularly suitable in industrial environments. In the residential sector they are used in bathrooms, kitchens and all those areas where total cleanability of the joints is important.

Beyond the regulation

All Mapei epoxy grouts meet all the requirements for the RG classification.

The use of Mapei epoxy grouts allows floors, walls, worktops, etc. to comply with the HACCP system and the requirements of EC Regulation no. 852/2004 regarding the hygiene of foodstuffs.







Perfect installation

Classification of mortars for grouting architectural stone paving according to UNI 11714-1 standard

As for installation, also the choice of grouting has to meet precise requirements, which vary according to surrounding conditions, stress related to the use and the type of stone material.

UNI 11714-1 standard requires design consistency between the characteristics of installation bed and the filling of joints: **compact bedding** shall feature compact fillings, while on **loose bedding** joints shall be filled with elastic-pervious products or systems.

Therefore, regulations specify the types of grouting that are compatible with compact and loose bedding for the various environments and the relevant load class when in use.



PEDESTRIAN USE ONLY

Balconies, terraces, patios, courtyards, residential pathways and pavements.



PEDESTRIAN USE ONLY

Exterior terraces of restaurants/bars, pavements for pedestrian and cycle use only.



PEDESTRIAN AND LIGHT VEHICLE USE

Pavements suitable for parking, carparks or ramps/garage pathways, courtyards, adjacent lots and pathways for the connection between buildings and their parking lots.



PEDESTRIAN AND LIGHT VEHICLE USE

Squares used occasionally by slow-moving vehicles, including heavy vehicles (parvises, cemeteries, etc.), market squares, loading/offloading areas, and squares for events, town festivals, etc.



PEDESTRIAN AND LIGHT VEHICLE USE

Areas with a 30 km/h speed limit, streets or squares with limited access to vehicles, public carparks and public access ramps.



HEAVY VEHICLE USE

Streets, streets with lanes for public transport or prescribed lanes, high-traffic roads, roundabouts and speed bumps.





Grouts for compact bedding paving: pre-blended mortars

Current standard provides for the use of pre-blended mortars for grouting paving with compact bedding in case of intense vehicle traffic (P9) and recommends them in any other case.

Advantages

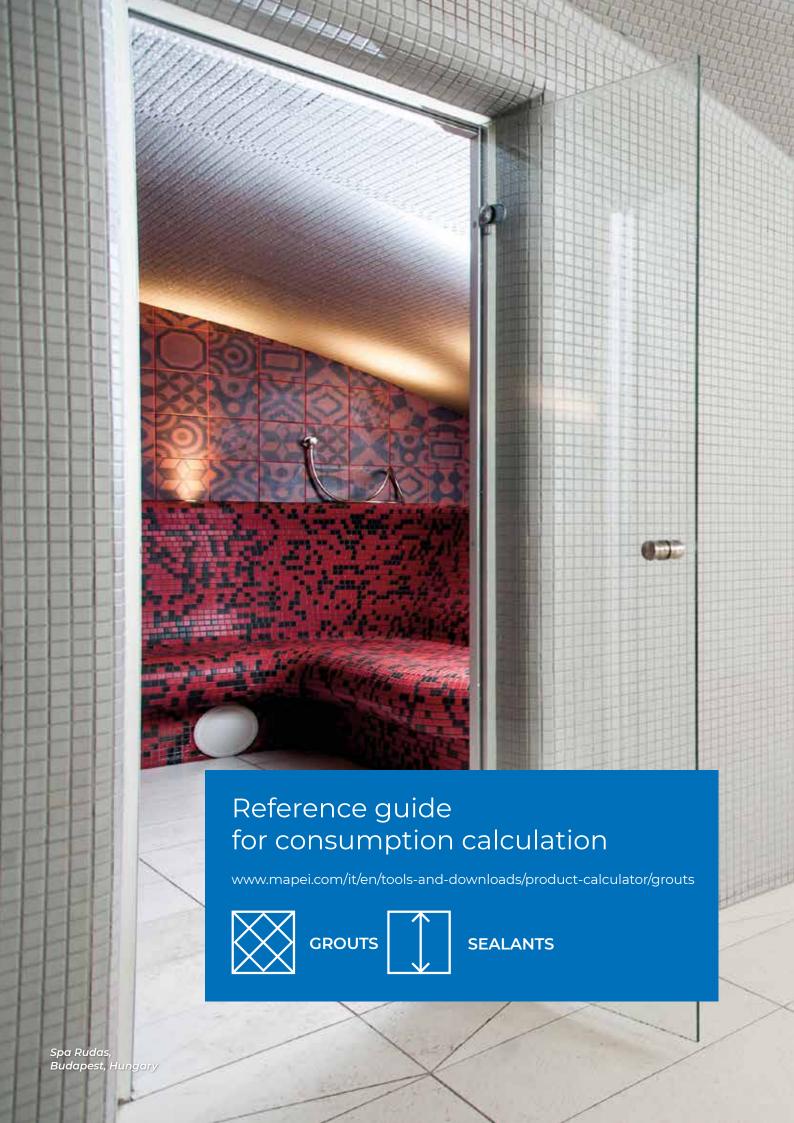
- High mechanical strength.
- High resistance to freezing/thawing.
- High resistance to de-icing salts.
- High resistance to sea spray and aerosol.
- Reopening to vehicular traffic in short times.

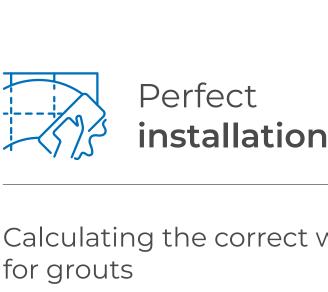
Grouts for loose-filled paving: polyurethane resins

Current standard provides for the use of polyurethane resins for grouting outdoor loose-filled paving, elastic and pervious, on small blocks, cobblestones and setts, for any kind of traffic.

Advantages

- · Highly pervious.
- · High flexibility.
- High mechanical strength.
- High resistance to freezing/thawing.
- High resistance to de-icing salts.
- · High sound-absorbing capacity.
- No need for expansion joints or distribution joints.
- Reopening to vehicular traffic in short times.





Calculating the correct width

According to current standards, tiling should be installed with grouts at least 2 mm wide and their width must be increased according to the type of final use and the design loads and stresses when in service. For architectural stone paving, according to UNI 11714-1 standard, when installed in exterior surroundings, grouts must be at least 5 mm wide and their width must be increased according to the dimensional tolerances and morphology of the stone tiles or slabs, the type of final use and the design loads and stresses when in service.

Butting adjacent slabs or tiles or leaving no gap is not permitted.

Forming joints

According to current standards, apart from respecting the position of structural joints, control joints and expansion joints must also be included.



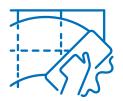
When installing tiles or slabs on interior surfaces, perimeter deformation joints and control joints must be created every 24-25 m² for ceramics and every 20-25 m² for stone.

When installing tiles or slabs on exterior surfaces, the surface must be divided into areas of maximum 9 m² for ceramics and 16 m² for stone. As a general guide, joints must be between 5 mm and 12 mm wide.

For architectural stone paving, according to UNI 11714-1 standard, when installing on a compact installation bed, apart from respecting the position of structural joints, control joints and expansion perimetral joints must also be included.

In order to prevent the formation of uncontrolled cracks, joints must be installed in correspondence of slope variations, vertical corners and any other interruption on the horizontal surface. As a general guide, joints must be created at least every 25 m², and must be between at least 10 mm wide. The width of the joint must be calculated according to the amount of movement expected and the elastic deformability of the sealant product specified.





Perfect installation

Grouts: the first step to ensure durability of flooring

Designing the installation with grouts of the correct dimensions is very important in order to obtain flooring which is **even**, **strong**, **resistant** and **durable**.

Ceramic or stone flooring, particularly large-format tiles or slabs installed on exterior surfaces

- Tile joints reduce the modulus of elasticity and, therefore, the stiffness of the tiling. The tiling installed by butting the tiles together is comparable to a stiff, seamless surface as if it were a single tile. When tiles are installed with "open" joints, each of the tiles has a certain degree of movement. This characteristic helps the tiling withstand the possible movement of the substrate (due to movements in the floor or dimensional instability in the substrate) and, therefore, provides protection against the risk of cracking, tiles lifting or becoming detached from the floor.
- Any steps between tiles have less of an impact. The maximum acceptable step between tiles is 1 mm for joints up to 6 mm wide for ceramics and 3 mm for stone material, and 2 mm for joints wider than 6 mm. As the width of the joint increases, the maximum acceptable step also increases.
- Installing tiles with large joints allows the amount of filler, or grout, in the joints to be calibrated correctly.
 This leads to advantages, such as the durability of the grout and its aesthetic, mechanical and functional characteristics.





Architectural stone paving

- Grouts are required to tie the stone elements to each other and to the installation bed, so they form a monolithic architectural paving (for compact bedding installations) or an elastic, pervious paving (for loose bedding installations).
- The width and depth of grouts determine the effectiveness of grouting products, which must fill them completely in order for them to reach the aesthetic, mechanical and functional properties required when in service.
- The width of grouts must be such that they allow both the aesthetic and functional requirements to be achieved.
- In the case of movements in tiling, or if access is required to plant equipment under the tiling, a large grout allows the grout to be removed and to preserve the condition of the flooring element. In fact, grouts may be filled quite easily with fresh grouting material without compromising the overall appearance of the flooring.

For these and many other reasons, installing tiles with a wide joint is a requirement of current standards.



Improved grouts thanks to Mapei technologies

Mapei has improved their range of grouting products by including cutting-edge technology which increases their performance properties, durability and uniformity of colour, thereby guaranteeing that grouts maintain their aesthetic qualities over the years.



DropEffect®

Easy-to-clean non-absorbent grouts

The quality of grouts is essential for the cleanability and maintenance of surfaces.

Mapei grouts with DropEffect® technology absorb less dirt and are easy to clean and their colour remains stable over the years. In fact, thanks to this special technology, they are less absorbent to liquids and are water-repellent. Liquids deposited on the surface are not absorbed but remain on the surface in the form of droplets, so joints are much easier to clean before stains are formed.



BioBlock®

Put a stop to mould for more hygienic and healthier surfaces

The proliferation of bacteria on the surface of grouts, especially in damp environments such as bathrooms and spas, may lead to the formation of moulds and fungi. In addition to causing an unsightly finish, these can be harmful for the health of final users. This is why the Mapei Research and Development has developed BioBlock® technology: molecules of special organic material distributed throughout the microstructures of the grout that impede the formation and proliferation of the microorganisms that cause mould, keeping tiled surfaces healthier and more hygienic and maintaining their appearance and finish over the years.





Stable and uniform colour

Guaranteed over time

In order to meet the aesthetic requirements of end users, the colour of grouts is undoubtedly one of the main features.

Mapei grouts are available in a wide variety of 58 colours, if we consider the various cementitious and epoxy products. The durability and uniformity in colour of Mapei grouts are guaranteed by their special formulation and the use of pigments which remain stable if subjected to UV rays or weathering.

All our products undergo **accelerated ageing tests** using a weatherometer, a device used to assess the reaction of products exposed to sunlight, rain and temperature variations.

All **Mapei grouts** are also subjected to **rigorous quality control tests** in compliance with the **ISO 9001** system.

A spectrophotometer is used to check the colour of cementitious and epoxy grouts before they are put on sale to make sure they comply with **Mapei** quality standards and that every production batch is the same.

Anti-efflorescence

Stop to unaesthetic white stains

Efflorescence, the typical white streaks that can form on the joints' surface, is one of the most common and unsightly defects on ceramic tiling. The presence of calcium carbonate through the joints is typical of formulas that contain Portland cement. The binder in **Ultracolor Plus** does not contain Portland cement, which makes the **product immune from the formation of efflorescence**, ensuring **maximum colour stability**.

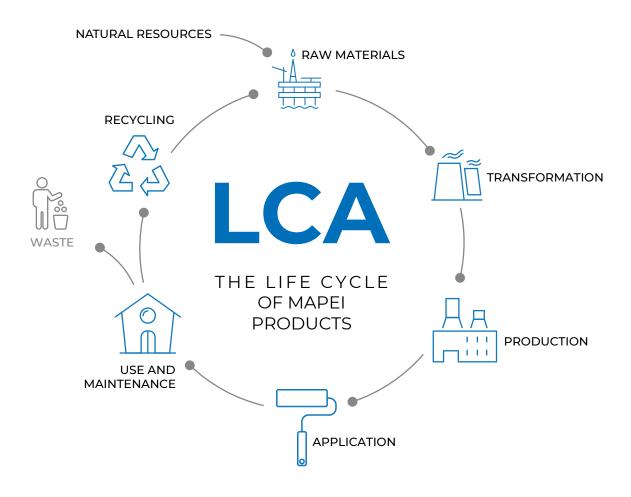


Every year Mapei dedicates part of its resources into research and development.

It actively promotes sustainability by adhering to international programmes and organisations, including the **LEED protocol** – Leadership in Energy and Environmental Design – developed by the US Green Building Council to provide guidance on the design of eco-sustainable buildings.

Mapei products help earn important LEED credits thanks to their **EPD**s (Environmental Product Declaration) and their **Emicode certification** for materials with a very low emission level of volatile organic compounds.

Thanks to EPD's, in Italy, **Mapei** products comply with the requirements of CAM (Criteri Ambientali Minimi - Minimum Environmental Criteria for design services and the construction and renovation of public buildings) aimed at identifying sustainable design solutions by evaluating the entire lifecycle of the products used.







Grouts for ceramics and stone material chart

SUITABLE MAPEI SUGGESTION		Cemer gro	ntitious outs			Epo gro	oxy outs		Polymer grouts
2 Identify the area of use 1 Choose the product	ULTRACOLOR PLUS	KERACOLOR FF	KERACOLOR GG	KERACOLOR SF	KERAPOXY	KERAPOXY EASY DESIGN	KERAPOXY CQ	KERAPOXY IEG	FLEXCOLOR
Joint width in mm	up to 20	up to 6	from 4 to 15	up to 4	min. 1	from 1 to 15	min.1	min. 3	from 2 to 10
Exterior Use									
Balconies and terraces	@						&		
Façades	@	@	@						
Swimming pools	®					®	®		
Interior Use									
Heated floor	@	&	®	@		@	&		
Residential environments	@	&		@		@	&		&
Public buildings	@	&	(2)			@	&		
Commercial environments	@		®			&	&		
Foodstuffs industries					@		&	8	
Areas subject to intense traffic	@				②		&	&	
Kitchens	&				®	®	&		
Damp environments	@					@	&		

Grouts for architectural stone paving chart

SUITABLE MAPEI PRODUCT SUGGESTION	Compact bedding Pre-blended mortars			Loose bedding Polyurethane resins		
1 Identify the area of use 2 Choose the product	MAPESTONE PFS 2	MAPESTONE PFS 2 VISCO	MAPESTONE PFS PCC2	MAPESTONE PFS2 FLEX	MAPESTONE JIOINT CUBE	MAPESTONE JIOINT SLAB
Joint width in mm	≥5	≥ 5	≥5	≥ 5	≥ 5	≥5
Stone element type						
Small blocks	@		&	@	®	
Cobblestones	®		&	&	@	
Setts	®		&	3	@	
Tiles/slabs with a regular cut shape	®		8	8		②
Tiles/slabs with an irregular section		@				②
Blocks		&				
Surrounding conditions						
Freezing/thawing	®	2	&	@	@	&
De-icing salts	®	3	&	@	@	&
Sea spray	®	3	&	@	@	&
Large day/night temperature variations			&	@	@	&
Classes of use						
P4 - Exterior paving for pedestrian, residential use only	®	8	&	&	®	&
P5 - Public/commercial exterior paving for pedestrian and cycle use	®	&	&	&	©	&
P6 - Public/residential paving for pedestrian and light vehicle use	@	&	2	&	@	@
P7 - Paving of pedestrian areas, square markets occasionally used for emergency deliveries	②	2	&	&	@	
P8 - Paving of pedestrian areas often used by heavy vehicles	®	&	&	&	@	
P9 - Paving of streets and lanes	®	&	&	<u> </u>	&	



Sealants chart	Acetic silicone	Neutral silicone	Polyurethane	Hybrid	Epoxy- polyurethane
SUITABLE PRODUCT MAPEI SUGGESTION 1 Identify the area of use 2 Choose the product	MAPESIL AC	MAPESIL LM	MAPEFLEX PU 45 FT	MAPEFLEX MS 45	MAPEFLEX E-PU21 SL
Exterior Use					
Balconies and terraces	®		®	<u> </u>	&
Façades		<u> </u>			
Swimming pools	®	®			
Exterior courtyards			2	<u> </u>	&
Cracks			<u> </u>	<u>@</u>	
Joints between different materials			®	®	
Fitting/glass joints	&				
Fitting/wall joints		②	®	®	
Interior Use					
Structural joints		@			
Cracks			<u> </u>	<u> </u>	
Joints for industrial floors			®	<u> </u>	®
Joints for civil floors	<u> </u>		®	®	®
Joints with kitchen tops	&	®			
Joints for stone flooring		®			
Tile joints	<u> </u>	②			
Sanitary joints for bathrooms	&				
Fitting/glass joints	&				
Fitting/wall joints		②	<u>@</u>	<u> </u>	
Bonding of skirtings and doorsteps			®	®	
Architectural paving – Classes of use			_		
P4 - Exterior paving for pedestrian, residential use only		@	®	®	3
P5 - Public/commercial exterior paving for pedestrian and cycle use		®	®	®	®
P6 - Public/residential paving for pedestrian and light vehicle use		②	&	②	②
P7 - Paving of pedestrian areas, square markets occasionally used for emergency deliveries		&	&	@	2
P8 - Paving of pedestrian areas often used by heavy vehicles			&	②	②
P9 - Paving of streets and lanes			®	@	②
Sealant deformability					
Joint movement ≤ 10% of width					
Joint movement > 10% ≤ 20% of width					
Joint movement ≤ 25% of width					
Type of sealant					
High-flowing					
Thixotropic					

Colour chart **CEMENTITIOUS GROUTS** MAPECOLOR METALLIC KERAPOXY EASY DESI **ELASTIC SEALANTS ULTRACOLOR PLUS** PASTE PRODUCTS **Mapei Coloured Grouts** COMPLEMENTARY KERACOLOR GG KERACOLOR SF **EPOXY GROUTS** KERACOLOR FF KERAPOXY IEG KERAPOXY CQ MAPEGLITTER MAPESIL AC MAPESIL LM FLEXCOLOR KERAPOXY 100 WHITE 799 WHITE 103 MOON WHITE 710 ICE WHITE 700 TRANSLUCENT 111 SILVER GREY **ANCIENT WHITE** 123 110 MANHATTAN 2000 112 MEDIUM GREY 282 BARDIGLIO GREY PEARL GREY 720 728 DARK GREY **CEMENT GREY** 113 115 RIVER GREY 116 **MUSK GREY** 174 **TORNADO** LONDON GREY 119 114 ANTHRACITE 127 ARTIC GREY 187 LINEN 176 **GREEN-GREY** CASTLE GREY 125 LIGHT LILAC 163 168 CERULEAN 167 AVIO STEEL BLUE 169 177 SAGE 189 SPELT 188 BISCUIT 120 **BLACK** CARIBBEAN 137 Due to the printing processes involved, the colours should be taken as merely indicative of the shades of the actual products. 130 JASMINE 290 CREAM 131 VANILLA ALMOND 138 729 SAHARA YELLOW **BEIGE 2000** 132 133 SAND 134 SILK PINK POWDER 139 CARAMEL 141 135 **GOLDEN DUST** 152 LIQUORICE 142 **BROWN** 147 CAPPUCCINO MUD 136 CHOCOLATE 144 146 **RICH BROWN** VOLCANO SAND 149 145 TERRA DI SIENA 143 **TERRACOTTA** SPACE BLUE 172 CROCUS BLUE 170 162 VIOLET TURQUOISE 171 173 OCEAN BLUE 283 **SEA BLUE** 182 TORMALINE 183 LIME GREEN 150 YELLOW 151 MUSTARD YELLOW 165 CHERRY RED 999 TRANSPARENT 700 + MOONLIGHT **700 + SHINING** 700 + STARDUST 700 + SAHARA 700 + RED CLAY GOLD SILVER







Grouts for **ceramics** and **stone material**

With Mapei Coloured Grouts collection it is possible to find the ideal solution for every project. A wide variety of colours is available. Choose the best solution for your needs from among cementitious, epoxy and paste grouts.

Mortars for cementitious grouts

A complete range of grouts for all types of ceramic, stone and glass mosaic coverings. They are ideal for **residential and commercial use**.

- Ultracolor Plus
- Keracolor FF
- Keracolor GG
- Keracolor SF

Mortars for epoxy grouts

They are particularly suitable when particular requirements for **hygiene** and **resistance to aggressive chemicals** are required. They are ideal in **industrial environments**, where very high resistance to chemicals and high strength is required.

- Kerapoxy
- Kerapoxy Easy Design
- Kerapoxy CQ
- Kerapoxy IEG

Mortars for polymer grouts

Ready- and easy-to-use.

Flexcolor







Ultracolor Plus

DESCRIPTION

Mapei safe, 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® technologies for grouting joints up to 20 mm wide.



POT LIFE OF MIX	20-30 minutes	EMICODE	EC1 Plus - very low emission
WAITING TIME FOR FINISHING	15-30 minutes	STORAGE	12 months (for 23 kg bags) 24 months (for 2 and 5 kg bags)
SET TO LIGHT FOOT TRAFFIC	3 hours	CONSUMPTION	According to the size of the grouts and tiles
READY FOR USE (at +23°C and 50% R.H.)	After 24 hours (48 hours for swimming pools)	PACKAGING	23 kg bags 4x5 kg or 8x2 kg Alupack boxes
COLOURS	40		depending on the colour



MOULD-RESISTANT

BioBlock® technology prevents the formation of the microorganisms 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 and flexural stress even after freeze-thaw cycles.



40 COLOURS

Colours are resistant to UV rays and atmospheric agents.



GOOD RESISTANCE TO ACIDS

CERTIFICATIONS & TECHNOLOGIES













WHERE TO USE

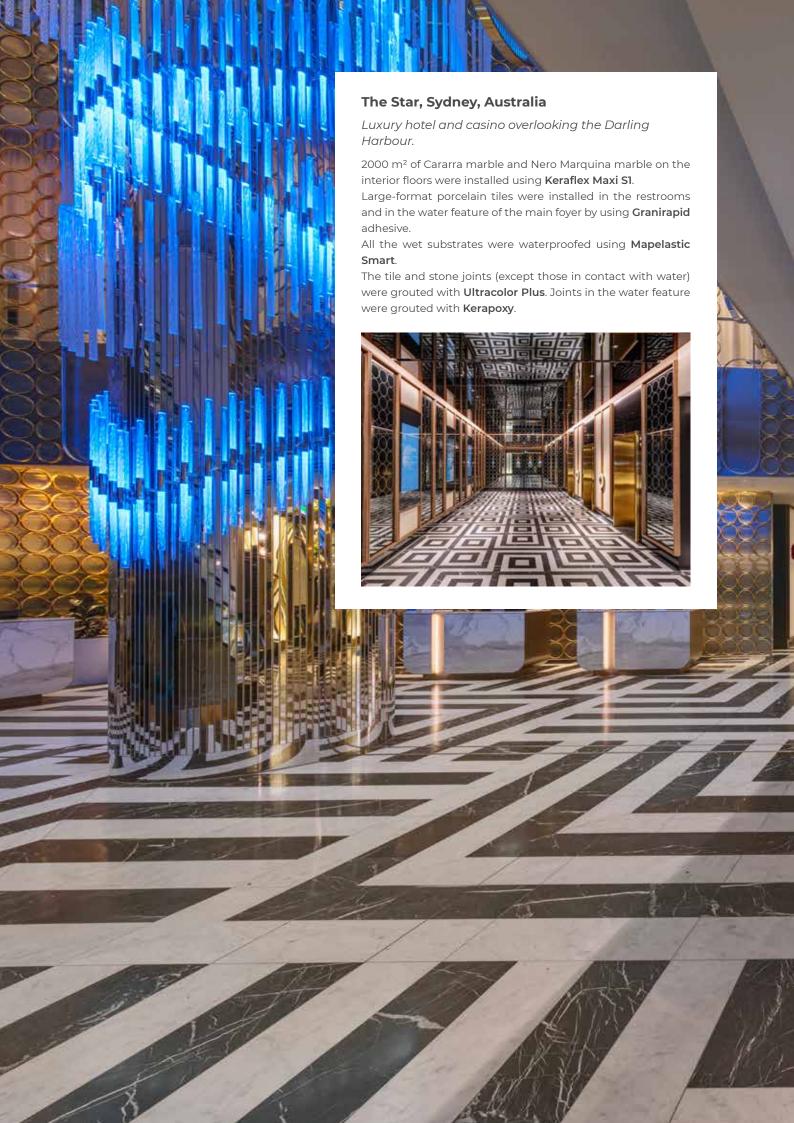
- All types of ceramics.
- Marble and stone material.
- Marble and glass mosaic.
- Interior and exterior use.
- Floors and walls.
- · Swimming pools, façades and balconies.
- Floors and walls in areas subject to **intense traffic** (airports, shopping centres, restaurants, etc.).

AREAS OF USE

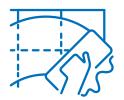












Keracolor FF

DESCRIPTION

Coloured, water-repellent cementitious mortar

cementitious mortar with water-repellent DropEffect® technology for grouting joints up to 6 mm.

Mixed with the Fugolastic admixture, it reaches a level of strength which makes it suitable for severe in-service conditions (grouting of façades, swimming

pools, bathrooms and floors subject to intense traffic).

Pre-blended, high-performance, polymer-modified



POT LIFE OF MIX	Approx. 2 hours	EMICODE	EC1 Plus - very low emission
WAITING TIME FOR FINISHING	10-20 minutes	STORAGE	12 months (for 25 kg bags) 24 months (for 5 kg bags)
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours	CONSUMPTION	According to the size of the grouts and tiles
READY FOR USE (at +23°C and 50% R.H.)	3 days (7 days for tanks and swimming pools)	PACKAGING	25 kg bags, 4x5 kg Alupack boxes
COLOURS	14		depending on the colour



WATER-REPELLENT

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



DURABLE AND STRONG

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



EASY TO CLEAN

Smooth and compact final surface, with low water absorption, easy to clean.



UNIFORM GROUTS, WITHOUT CRACKS

Keracolor FF mortar is characterised by a low shrinkage rate, which means it does not form cracks.



GOOD RESISTANCE TO ACIDS



GOOD PRICE-PERFORMANCE RATIO

AREAS OF USE









WHERE TO USE

- All types of ceramics.
- Marble and stone material.
- Marble and glass mosaic.
- Interior and exterior use.
- Floors and walls.
- Swimming pools.
- Particularly smooth and glossy floor surfaces (polished porcelain, pre-polished marble, glazed tiles).
- Ceramic industrial flooring where resistance to chemicals is not required (garages, warehouses, etc.).

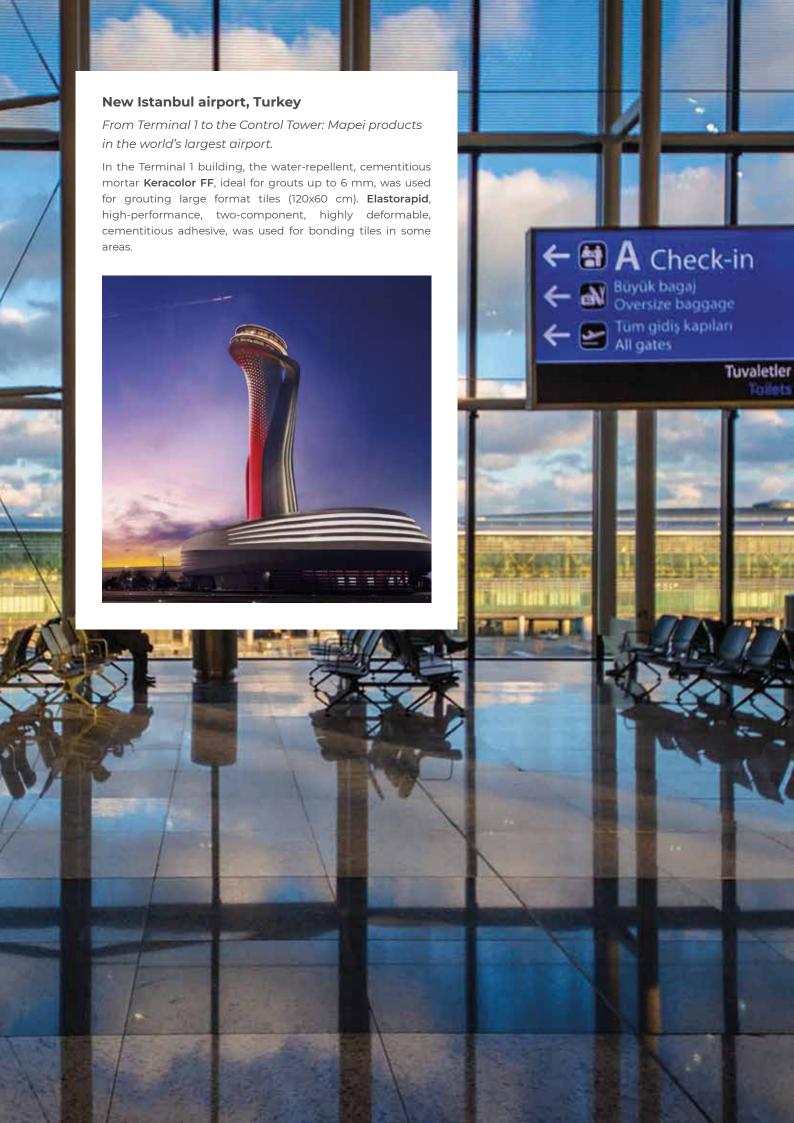




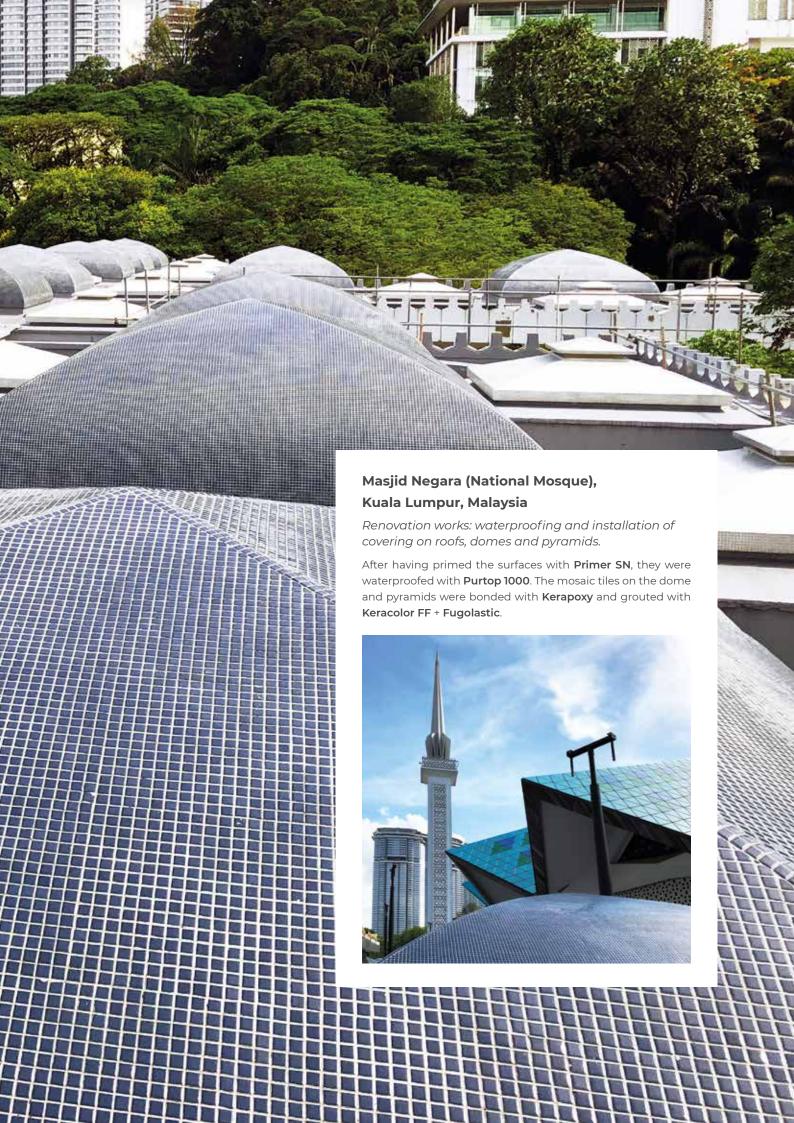














Keracolor GG

DESCRIPTION

Coloured cementitious mortar ideal for terracotta and exposed brickworks

Pre-blended, high-performance polymer-modified cementitious mortar for grouting **joints from 4 to 15 mm**. Mixed with the **Fugolastic** admixture, it reaches a level of strength which makes it suitable for severe in-service conditions (grouting of façades, swimming pools, bathrooms and floors subject to intense traffic).



POT LIFE OF MIX	Approx. 2 hours	EMICODE	EC1 Plus - very low emission
WAITING TIME FOR FINISHING	10-20 minutes	STORAGE	12 months (for 22-25 kg bags) 24 months (for 5 kg bags)
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours	CONSUMPTION	According to the size of the grouts and tiles
READY FOR USE (at +23°C and 50% R.H.)	3 days (7 days for tanks and swimming pools)	PACKAGING	25 kg bags, 4x5 kg Alupack boxes
COLOURS	13		depending on the colour



DURABLE AND STRONG

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



UNIFORM GROUTS, WITHOUT CRACKS

Keracolor GG mortar is characterised by a low shrinkage rate which means it does not form cracks.



GOOD RESISTANCE TO ACIDS



GOOD PRICE-PERFORMANCE RATIO

WHERE TO USE

- · All types of ceramics.
- Suitable for terracotta.
- · Exposed brick.
- · Stone material.
- Interior and exterior use.
- · Floors and walls.
- Exterior façades, balconies, terraces and swimming pools.
- Grouting floors with a rustic finish.
- Ceramic industrial flooring where resistance to chemicals is not required (garages, warehouses, etc.).











CERTIFICATIONS & TECHNOLOGIES











Keracolor SF

DESCRIPTION

Fine-grained mortar for smooth and glossy surfaces

Fine-grained, high-performance, white cementitious mortar for grouting **joints up to 4 mm**.

Mixed with the **Fugolastic** admixture, it reaches a level of strength which makes it suitable for

a level of strength which makes it suitable for severe in-service conditions (grouting façades, swimming pools, bathrooms and floors subject to intense traffic). It may also be used for grouting joints in marble floors to be polished on site.



POT LIFE OF MIX	Approx. 2 hours	EMICODE	EC1 Plus - very low emission
WAITING TIME FOR FINISHING	10-20 minutes	STORAGE	12 months (for 22 kg bags) 24 months (for 5 kg bags)
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours	CONSUMPTION	According to the size of the grouts and tiles
READY FOR USE (at +23°C and 50% R.H.)	3 days (7 days for tanks and swimming pools)	PACKAGING	22 kg bags, 4x5 kg Alupack boxes
COLOURS	White		

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FINE-GRAINED

Ideal for grouting thin joints and for smooth and glossy surfaces.



DURABLE AND STRONG

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



EASY TO CLEAN

Smooth and compact final surface, with very smooth texture and low water absorption, easy to clean.



UNIFORM GROUTS, WITHOUT CRACKS

Keracolor SF mortar is characterised by a low shrinkage rate which means it does not form cracks.



GOOD RESISTANCE TO ACIDS



GOOD PRICE-PERFORMANCE RATIO

AREAS OF USE









WHERE TO USE

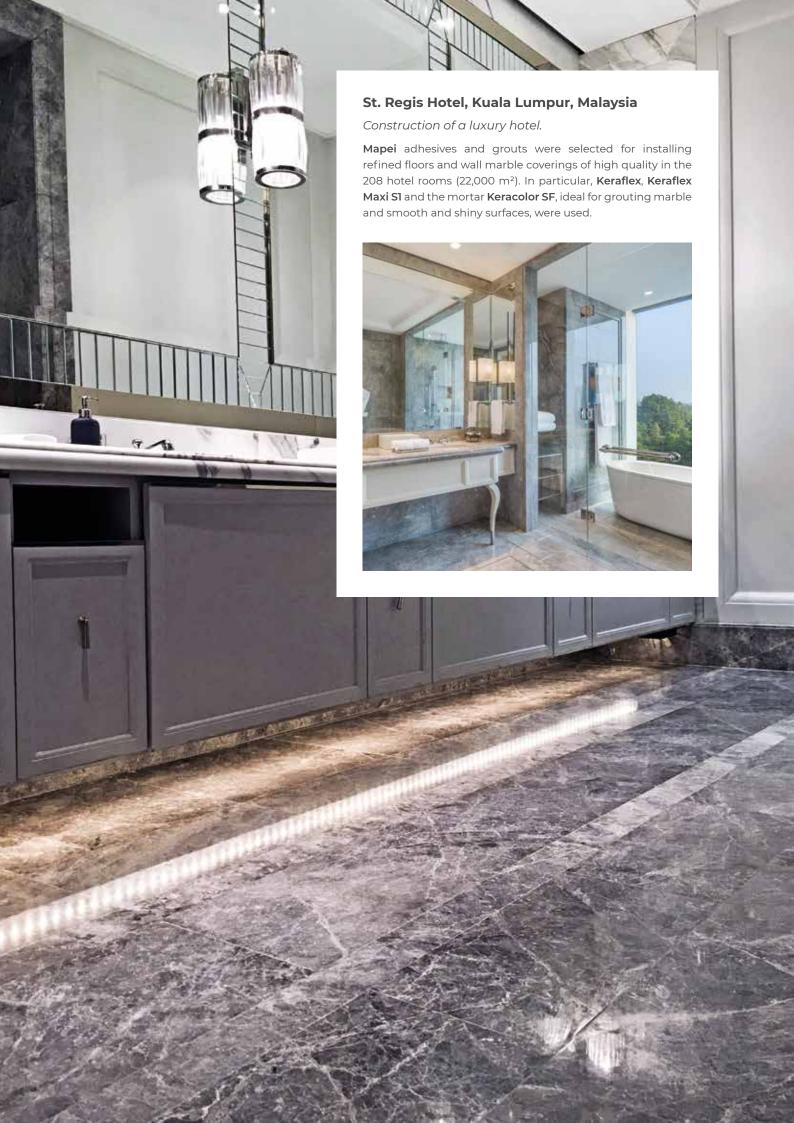
- All types of ceramics.
- Stone material and pre-polished marble.
- · Glass and pre-finished marble mosaic.
- Interior and exterior use.
- Floors and walls.
- Ideal for particularly smooth and glossy surfaces (polished porcelain, pre-polished marble, etc.).
- · Ideal for grouting thin joints.

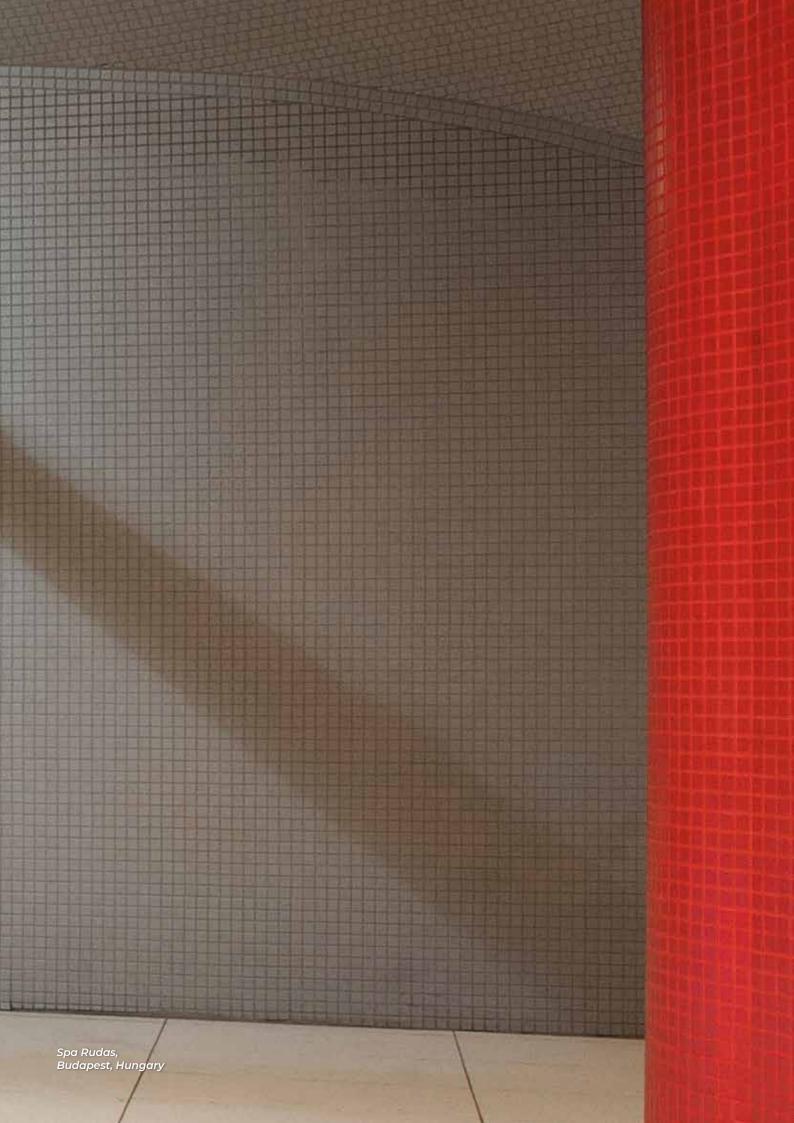
CERTIFICATIONS & TECHNOLOGIES

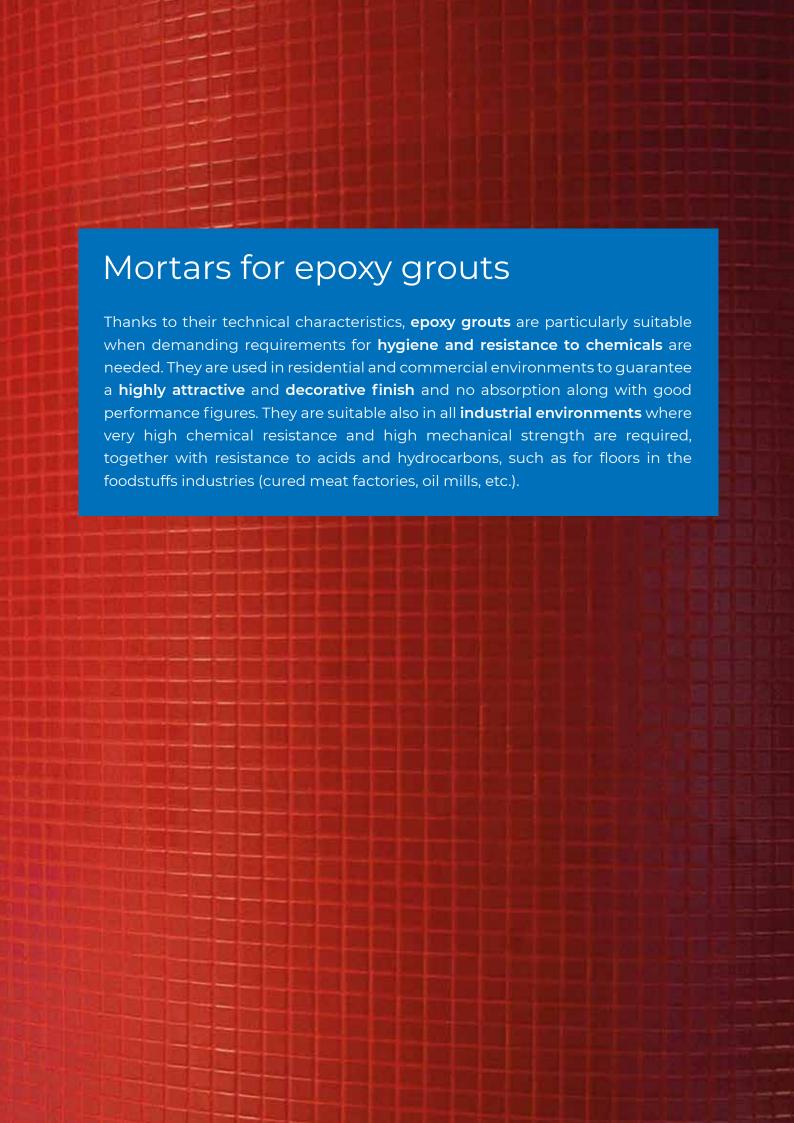














Kerapoxy

DESCRIPTION

Epoxy mortar suitable for kitchens and for the foodstuffs industry

Two-component **acid-resistant** epoxy grout for joints of at least 1 mm. Can also be used as an adhesive.



POT LIFE OF MIX	45 minutes	COLOURS	17
		EMICODE	EC1 Plus - very low emission
		STORAGE	24 months
		CONSUMPTION	According to the size of the grouts and tiles
		PACKAGING	10-5 kg units and 12x2 kg boxes

AREAS OF USE

















EXCELLENT RESISTANCE TO ACIDS

Suitable for industrial environments exposed to aggressive chemicals.



HIGH MECHANICAL STRENGTH

Particularly suitable for commercial and industrial environments subject to heavy traffic.



WATERPROOOF AND HYGIENIC GROUTS

The surface of grouts is smooth, compact and waterproof and does not absorb any dirt, which means they are more hygienic and easier to clean.



SUITABLE FOR KITCHENS AND FOODSTUFFS INDUSTRIES

Allows grouting floors and worktops in compliance with the HACCP system and the requirements of EC Regulation no. 852/2004 regarding the hygiene of foodstuffs.



UNIFORM COLOUR THAT REMAINS STABLE OVER THE YEARS

17 colours resistant to UV rays and atmospheric agents.











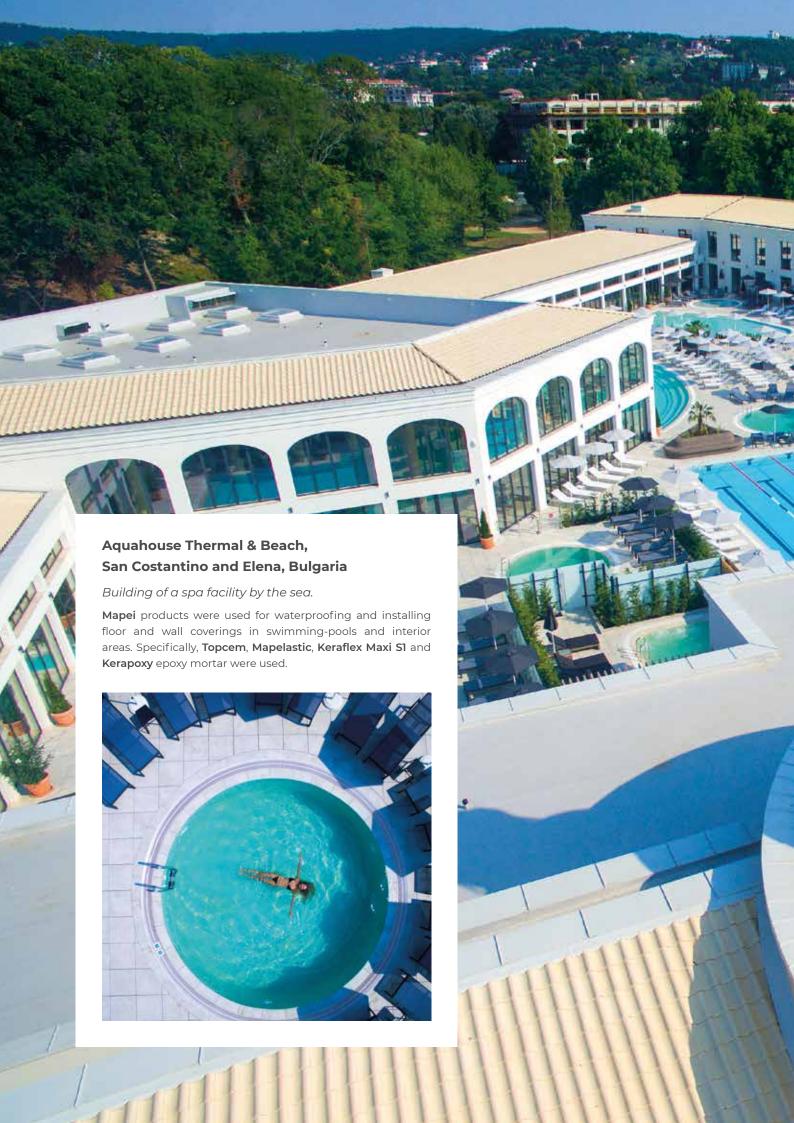


WHERE TO USE

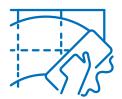
- Ceramics.
- Stone material.
- · Interior and exterior use.
- Floors and walls.
- · Can also be used as an adhesive.
- Ideal for foodstuffs industries (dairies, abattoirs, breweries and wine-cellars...), kitchen worktops, laboratory benches, where a high level of hygiene is required.
- Ideal for grouting industrial floors where high mechanical resistance and resistance to acid attack is required.
- Swimming pools; including with salt or thermal water, and tanks containing chemically aggressive water (purification plants).











Kerapoxy Easy Design

DESCRIPTION

Epoxy mortar with improved workability and high visual impact

Two-component, versatile, decorative, acid-resistant epoxy grout, with a bacteriostatic agent and BioBlock® technology, easy to apply and clean, ideal for grouting ceramic tiles, glass mosaics and stone materials, to be used also in combination with MapeGlitter and Mapecolor Metallic. For grouting joints from 1 to 15 mm wide. Can also be used as an adhesive



POT LIFE OF MIX	45 minutes	COLOURS	41
SET TO LIGHT		EMICODE	EC1 Plus - very low emission
FOOT TRAFFIC	Approx. 24 hours	STORAGE	24 months
READY FOR USE (at +23°C and 50% R.H.)	4 days (10 days for tanks and swimming pools). Surfaces can also be subjected to chemical attack after 10 days.	CONSUMPTION	According to the size of the grouts and tiles
		PACKAGING	3 kg units

AREAS OF USF

















WIDE RANGE OF COLOURS

EXCELLENT WORKABILITY

easier to clean after grouting.

Available in 41 colours. Mixed with MapeGlitter, or Mapecolor Metallic allows for a wider range of colours and metallic grouts.

application easier and quicker and surfaces are

Thanks to BioBlock®, it prevents the proliferation of micro-organisms and the formation of moulds, ensuring the highest hygiene.

It has a creamier consistency, which makes

NON-ABSORBENT AND EASY TO CLEAN



















Allows grouting floors and worktops in compliance with the HACCP system and the requirements of EC Regulation no. 852/2004 regarding the hygiene of foodstuffs.





STABLE AND UNIFORM COLOUR

Resistant to UV rays and aggressive atmospheric agents: colours are highly stable to guarantee that grouts have an even colour that remains stable over the years.

ACID RESISTANT

Excellent chemical resistance and mechanical strength, the final surface of the grout is smooth and compact, with no absorption, and ensures a high level of hygiene.

WHERE TO USE

- · Ideal for glass mosaic.
- · All types of ceramics.
- · Stone material.
- · Interior and exterior use.
- · Ideal for showers, bathrooms, thermal facilities, Turkish baths.
- Swimming pools, especially recommended for salt or thermal water.
- Grouting **decorative coverings** in environments with a high aesthetic value.

CERTIFICATIONS & TECHNOLOGIES







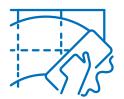












Kerapoxy CQ

DESCRIPTION

Antibacterial and mould-resistant epoxy mortar

Two-component acid-resistant epoxy mortar with bacteriostatic BioBlock® technology, ideal for grouting ceramic tiles and mosaics. Can also be used as an adhesive. Product certified by the University of Modena according to ISO 22196:2007 standard as a grouting mortar protected against the formation and proliferation of micro-organisms.



POT LIFE OF MIX	45 minutes	EMICODE	EC1 Plus - very low emission
SET TO LIGHT		STORAGE	24 months
FOOT TRAFFIC	Approx. 24 hours	CONSUMPTION	According to the size of the grouts
READY FOR USE (at +23°C and 50% R.H.)	4 days (10 days for tanks and swimming pools). Surfaces can also be subjected to chemical attack after 10 days.		and tiles
		PACKAGING	3 kg or 10 kg units for the colours 113, 114, 132, 282 and 100
COLOURS	17		

AREAS OF USE

















ANTIBACTERIAL AND MOULD-RESISTANT

Certified as an anti-bacterial and anti-microbe product. Thanks to **BioBlock**®, it prevents the proliferation of micro-organisms and the formation of moulds, ensuring the highest hygiene.



ACID PROOF

Suitable for commercial and industrial environments subject to heavy traffic and exposed to aggressive chemicals: it is acid resistant and has high mechanical strength.



SUITABLE FOR KITCHENS AND FOODSTUFFS INDUSTRIES

Thanks to its anti-bacterial properties, it is suitable for the foodstuffs industry and for kitchens where a high level of hygiene is required.



WATERPROOOF HYGIENIC GROUTS

The surface of grouts is smooth, compact and waterproof and does not absorb any dirt, which means it is more hygienic and easier to clean.



UNIFORM COLOUR THAT REMAINS STABLE OVER THE YEARS

17 colours resistant to UV rays and atmospheric agents.

CERTIFICATIONS & TECHNOLOGIES















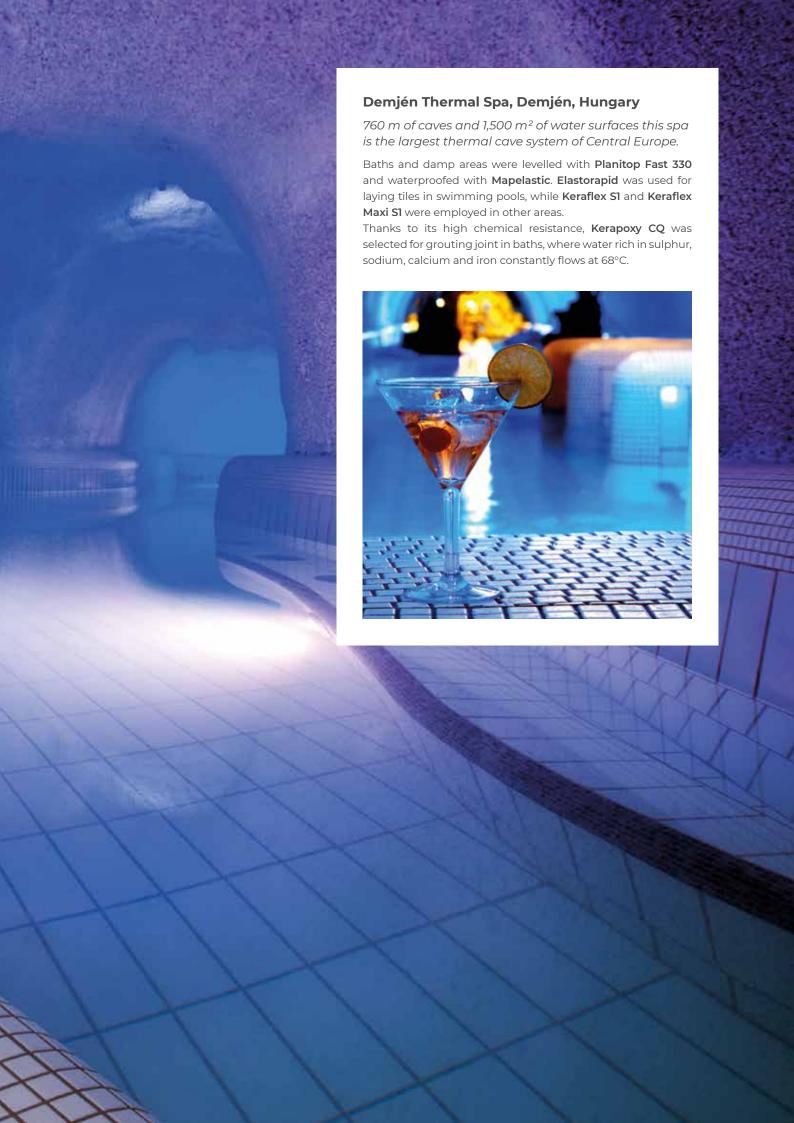
WHERE TO USE

- · Ceramics.
- Stone material.
- Glass mosaic.
- Interior and exterior use.
- · Floors and walls.
- Swimming pools; including with salt or thermal water, Turkish baths.
- Ideal for foodstuffs industries
 (dairies, abattoirs, breweries and wine-cellars...),
 kitchen worktops, laboratory benches,
 where a high level of hygiene is required.











Kerapoxy IEG

DESCRIPTION

Epoxy mortar with extremely high chemical resistance

Two-component epoxy mortar with extremely high chemical resistance for joints at least 3 mm wide. For acid-resistant grouting of ceramic and stone material where higher resistance to chemical products compared with that of conventional epoxy grouts is required (in particular, to oleic acids and aromatic hydrocarbons).



POT LIFE	/E main vita a	COLOURS	113 and 130
OF MIX	45 minutes	EMICODE	EC1 Plus - very low emission
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours	STORAGE	24 months
READY FOR USE (at +23°C and 50% R.H.)	4 days Time varies depending on	CONSUMPTION	According to the size of the grouts and tiles
	temperature	PACKAGING	10 kg units



DURABLE AND STRONG

Highly compact grouts with excellent resistance to chemicals and excellent cleanability according to a formula developed in the **Mapei** research laboratories.



VERY HIGH RESISTANCE TO CHEMICALS AND HIGH STRENGTH

Extremely high mechanical properties and resistance to chemicals, higher than those of normal epoxy grouts.



MORE HYGIENIC AND EASY TO CLEAN SURFACES

Smooth and compact final surface, with no absorption and easy to clean, ensures a high level of hygiene.



EXCELLENT WORKABILITY

Easy to spread and finish off.



HARD-WEARING

Excellent resistance to heavy traffic.



SOUND GROUTS, WITHOUT CRACKS

No shrinkage and no cracks.

AREAS OF USE







CERTIFICATIONS & TECHNOLOGIES







WHERE TO USE

- · Ceramic and stone material.
- Acid-resistance grouting with extremely high chemical resistance:
 - ham factories (especially in the areas where boning and curing are carried out)
 - sausage factories (especially in cooking areas, exposed to oleic acid)
 - oil mills
 - pickling factories
- Grouting floors and worktops in compliance with the HACCP system and the requirements of EC Regulation no. 852/2004 regarding the hygiene of foodstuffs.











Flexcolor

DESCRIPTION

Ready-to-use polymer mortar, ideal for flexible substrates

Ready-to-use, polymer filler paste for joints from 2 to 10 mm with water-repellent DropEffect® and mould-resistant BioBlock® technology, for grouting ceramic tiles and mosaics 2 to 10 mm wide.



WAITING 1	IME
FOR FINIS	HINC

15 to 20 minutes depending on the surrounding conditions and absorption of the tiles

SET TO LIGHT FOOT TRAFFIC

48 hours

READY FOR USE

7 days

COLOLIDO	100 M/H: t = 110 M = - - + + 2000
COLOURS	100 White, 110 Manhattan 2000,
	111 Silver Grey, 112 Medium Grey,
	132 Beige 2000

STORAGE 12 months

CONSUMPTION According to the size of the grouts and tiles

PACKAGING 5 kg buckets



READY TO USE AND EASY TO APPLY



IDEAL FOR FLEXIBLE SUBSTRATES

Resistant to vibrations and deformations in substrates. Therefore, it is particularly suitable for grouting exterior façades and flexible substrates.



EASY TO CLEAN

Once applied, it is easy to clean from the surface of tiles.



RESISTANT TO WATER

Drop-effect water-repellent: **DropEffect**® technology significantly reduces absorption of surface water which means grouts also absorb less dirt and are easier to clean.



MOULD-RESISTANT

BioBlock® technology prevents the formation of the microorganisms that may form mould on the grout surface at the root.



UNIFORM COLOUR

Colour resistant at atmospheric agents.

AREAS OF USE









WHERE TO USE

- All types of ceramic tiles.
- Interior floors and walls.
- Exterior walls only.
- For joints from 2 to 10 mm.
- Suitable for exterior façades and flexible substrates.

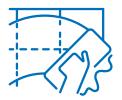
CERTIFICATIONS & TECHNOLOGIES











Complementary products

Accessory items

Fugolastic

Polymer liquid admix for Keracolor FF, Keracolor GG and Keracolor SF

USE

Mixed with the cement-based grouts of the **Keracolor** range as a substitute for mixing water, it **improves** the grout adhesion and mechanical strength and reduces water absorption. It is recommended for exterior grouts on façades, balconies and swimming pools and for floors subject to heavy traffic.



MapeGlitter

Polyester, aluminium and epoxy resin metal-effect coloured glitter to be mixed with Kerapoxy Easy Design

USE

Mixed with **Kerapoxy Easy Design** epoxy grout, allows for a wider range of colours and sparkly, metallic finish, with distinctive decorative effects. It is particularly recommended for metal and glass tiles and mosaics.



Mapecolor Metallic

Powder pigments based on very high-quality pearlescent mica, to be mixed with Kerapoxy Easy Design

USE

Mixed with **Kerapoxy Easy Design** epoxy grout allows for a wider range of colours and metallic grouts. It is particularly recommended for metal tiles, ceramic tiles with a metallic effect, glass and ceramic mosaic and glass tiles.



Products for cleaning, maintaining and protecting surfaces

UltraCare range

Professional products for taking care of floor and wall coverings, keeping them durable over time.

USE

Products suitable for cleaning, maintaining and protecting surfaces



Renewing grouts

Fuga Fresca

Paint to bring back the colour of grouts

USE

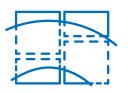
Acrylic resin paint in water dispersion to bring back the colour of joints in ceramic tiling.

Available in all colours from the Keracolor and Ultracolor Plus range.









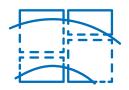
Solutions for architectural stone paving

Stone in its various shapes and types has been used to create the most **beautiful** road surfaces in **historical town centres** and is also used to create **pedestrian zones, cycle lanes and roads exposed to intense traffic**. It is also used in **residential buildings** for exterior surfaces, stairs and landings.

Mapei has developed a range of specific products for architectural stone paving which are ideal for use under various service conditions, including when it has to withstand heavy loads and intense traffic.







Mapestone PFS 2

DESCRIPTION

Pre-blended mortar for grouting joints in 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.



POT LIFE OF THE MIX	Approx. 20 minutes, at +20°C
WAITING TIME BEFORE CLEANING	20-30 minutes, at +20°C
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours, at +20°C

READY FOR USE	7 days, at +20°C
COLOURS	Neutral, dark grey and white
STORAGE	12 months (for 25 kg bags)
CONSUMPTION	According to the width of grouts and the size of stone elements
PACKAGING	25 kg bags

AREAS OF USE











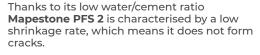
WHERE TO USE

- Small blocks
 Cobblestones
 Blocks
- Smolleri bricks
 Slabs



DURABLE AND STRONG







SUITABLE FOR SURFACES WITH VEHICLE ACCESS

COMPLETE SISTEM

(combined with suitable bedding).

With Mapestone TFB 60 bedding.



HIGH COMPRESSIVE STRENGTH



RESISTANT TO FREEZE/THAW CYCLES



RESISTANT TO DE-ICING SALTS



RESISTANT TO SEAWATER



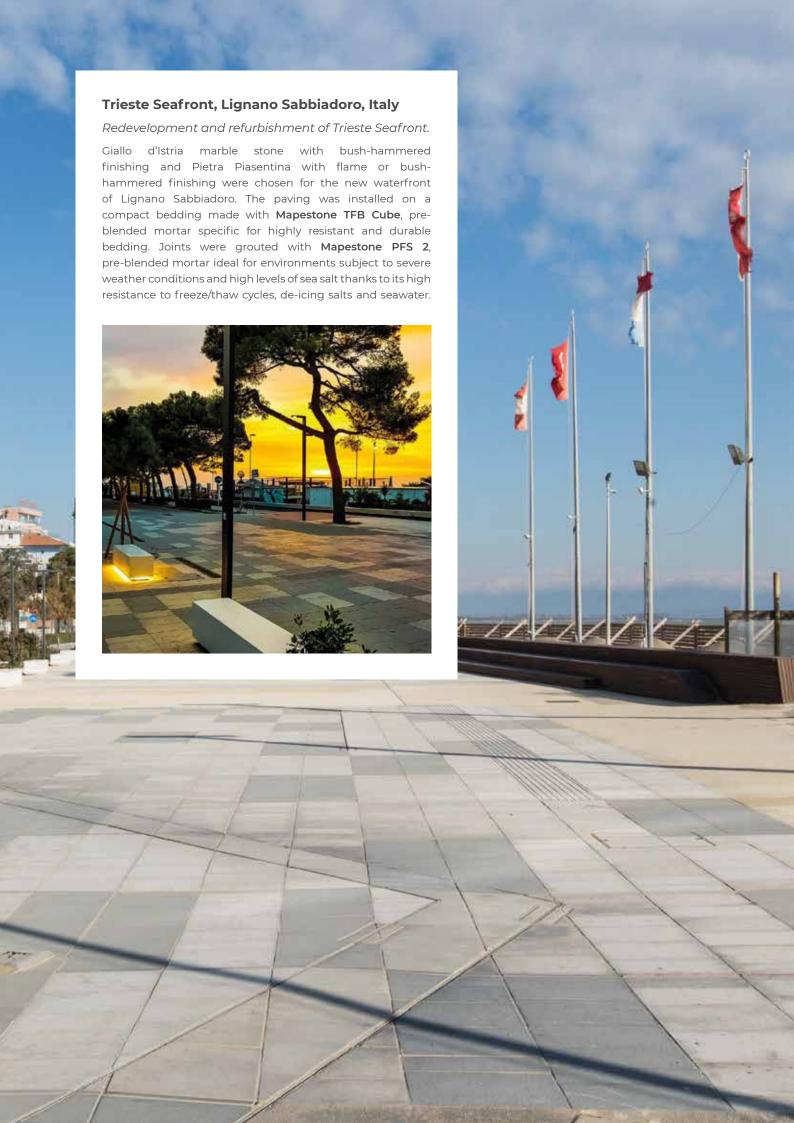
MAXIMUM PRACTICALITY

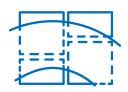
Pre-blended, ready-to-use product. Just add water and mix with a power mixer for 3 minutes.



QUICK SETTING AND QUICKLY READY FOR USE







Mapestone PFS 2 Visco

DESCRIPTION

Mortar for grouting architectural slab and block-paving

Low viscosity, pre-blended mortar with exceptional physical-chemical characteristics suitable for areas exposed to dry/damp cycles (exposure class XF4). Resistant to compression, de-icing salts, freezethaw cycles and seawater, it is suitable for grouting architectural stone paving in class P4, P5, P6, P7, P8, P9 according to standard UNI 11714-1:2018.



POT LIFE OF THE MIX	Approx. 40 minutes, at +20°C
WAITING TIME BEFORE CLEANING	20-30 minutes, at +20°C
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours, at +20°C

READY FOR USE	7 days, at +20°C
COLOURS	Neutral, dark grey and white
STORAGE	12 months (for 25 kg bags)
CONSUMPTION	According to the width of grouts and the size of stone elements
PACKAGING	25 kg bags

AREAS OF USE











WHERE TO USE

- Slabs
- Blocks





UNIFORM GROUTS, WITHOUT CRACKS

Thanks to its low water/cement ratio **Mapestone PFS 2 Visco** is characterised by a low shrinkage rate, which means it does not form cracks.



HIGH COMPRESSIVE STRENGTH

LOW VISCOSITY OF THE MIX

Ideal for grouting road surfaces made from irregular shaped elements. Thanks to its low viscosity it is very effective in filling air pockets around cobblestones and between cobblestones and the installation bed.



RESISTANT TO FREEZE/ THAW CYCLES



RESISTANT TO DE-ICING SALTS



RESISTANT TO SEAWATER



MAXIMUM PRACTICALITY

Pre-blended, ready-to-use product. Just add water and mix with a power mixer for 3 minutes.



QUICK SETTING AND QUICKLY READY FOR USE



SUITABLE FOR SURFACES WITH VEHICLE ACCESS

(combined with suitable installation mortar).

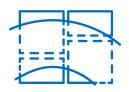


COMPLETE SISTEM

With installation of **Mapestone TBF 60**.







Mapestone PFS PCC 2

DESCRIPTION

Pre-blended polymer-modified mortar for grouting joints in architectural stone paving

Mortar with a low modulus of elasticity, exceptional physical-chemical characteristics suitable for areas exposed to dry/damp cycles specified by exposure class XF4. Highly resistant to compression, de-icing salts, freeze-thaw cycles and seawater, it is suitable for grouting architectural stone paving in class P4, P5, P6, P7, P8, P9 according to standard UNI 11714-1:2018.



POT LIF	E
OF THE	MIX

Approx. 20 minutes, at +20°C

WAITING TIME

BEFORE CLEANING 20-30 minutes, at +20°C

SET TO LIGHT **FOOT TRAFFIC**

Approx. 24 hours, at +20°C

READY FOR USE	7 days, at +20°C
COLOURS	Neutral
STORAGE	12 months
CONSUMPTION	According to the width of grouts and the size of stone elements
PACKAGING	25 kg bags

AREAS OF USE











WHERE TO USE

- Climatic zones with large day/night temperature variations • Cobblestones
- Small blocks Smolleri bricks
- Lithotypes with high coefficient of thermal expansion
 - Slabs
 - Blocks

DURABLE AND STRONG



IDEAL FOR AREAS SUBJECTED TO LARGE DAY/NIGHT TEMPERATURE VARIATIONS AND LITHOTYPES WITH HIGH COEFFICIENT OF THERMAL EXPANSION



UNIFORM GROUTS, WITHOUT CRACKS



Thanks to its low water/cement ratio Mapestone PFS PCC 2 is characterised by its low shrinkage rate, which means it does not form cracks.







RESISTANT TO FREEZE/



THAW CYCLES



RESISTANT TO DE-ICING SALTS



RESISTANT TO SEAWATER



MAXIMUM PRACTICALITY

Ready-mixed, ready-to-use product. Just add water and mix with a power mixer for 3 minutes.



QUICK SETTING AND QUICKLY **READY FOR USE**



SUITABLE FOR SURFACES WITH VEHICLE ACCESS

(combined with suitable installation mortar).

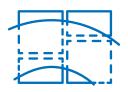


COMPLETE SISTEM

With installation of Mapestone TFB 60







Mapestone PFS 2 Flex

DESCRIPTION

Pre-blended, polymer-modified mortar with low modulus of elasticity (25 GPa) and high pull-off strength for grouting architectural stone paving

Mortar with a low modulus of elasticity, high pull-off strength and exceptional physical-chemical characteristics suitable for areas exposed to dry/damp cycles specified by exposure class XF4. Highly resistant to compression, deicing salts, freeze-thaw cycles and seawater, it is suitable for grouting architectural stone paving in class P4, P5, P6, P7, P8, P9 according to standard UNI 11714-1:2018.



POT LIFE OF THE MIX	Approx. 20 minutes, at +20°C
WAITING TIME BEFORE CLEANING	20-30 minutes, at +20°C
SET TO LIGHT	Approx 24 hours at +20°C

READY FOR USE	7 days, at +20°C
COLOURS	Neutral, white and dark grey
STORAGE	12 months
CONSUMPTION	According to the width of grouts and the size of stone elements
PACKAGING	25 kg bags

AREAS OF USE











WHERE TO USE

- Climatic zones with large day/night temperature variations • Cobblestones
- Small blocks Smolleri bricks
- Lithotypes with high coefficient of thermal expansion
 - Slabs
 - Blocks

DURABLE **AND STRONG**



IDEAL FOR AREAS SUBJECTED TO LARGE DAY/NIGHT TEMPERATURE VARIATIONS AND LITHOTYPES WITH HIGH COEFFICIENT OF THERMAL EXPANSION



UNIFORM GROUTS, WITHOUT CRACKS

Thanks to its low water/cement ratio Mapestone PFS2 Flex is characterised by its low shrinkage rate, which means









RESISTANT TO FREEZE/ THAW CYCLES



RESISTANT TO DE-ICING SALTS



RESISTANT TO SEAWATER



MAXIMUM PRACTICALITY

Ready-mixed, ready-to-use product. Just add water and mix with a power mixer for 3 minutes.



QUICK SETTING AND QUICKLY **READY FOR USE**



SUITABLE FOR SURFACES WITH VEHICLE ACCESS

(combined with suitable installation mortar).



COMPLETE SISTEM

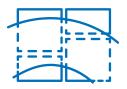
With installation of Mapestone TFB 60











Mapestone Joint

DESCRIPTION

Binder for creating elastic and pervious architectural stone paving

One-component, solvent-free, polyurethane binder with a characteristic odour for sealing joints in **elastic** and **pervious** architectural stone paving.

Two application methods:

- 1 Mapestone Joint Cube for small blocks,
 cobblestones and setts in class P4, P5, P6,
 P7, P8, P9 according to standard UNI 11714-1:2018.
- 2 Mapestone Joint Slab for slabs and blocks in class P4, P5, P6.



TIME TO FORM SKII	N Approx. 3 hours and 30 minutes	STORAGE	12 months
SET TO LIGHT FOOT TRAFFIC	Approx. 24 hours, at +20°C	CONSUMPTION	According to the width of grouts and the size of stone elements
READY FOR USE	48-72 hours, at +20 °C	PACKAGING	25 kg cans, 200 litre drums and 1000 litre tanks
COLOURS	Amber		

AREAS OF USE MAPESTONE JOINT SLAB





AREAS OF USE MAPESTONE JOINT CUBE

















DURABLE AND STRONG



HIGH COMPRESSIVE STRENGTH



RESISTENTE AI CICLI GELO/DISGELO



RESISTANT TO DE-ICING SALTS



RESISTANT TO SEAWATER



NOISE REDUCING



QUICK SETTING AND QUICKLY READY FOR USE



SUITABLE FOR SURFACES WITH VEHICLE ACCESS

(Combined with suitable bedding)

WHERE TO USE MAPESTONE JOINT CUBE

- Small blocks
- Setts
- Cobblestones

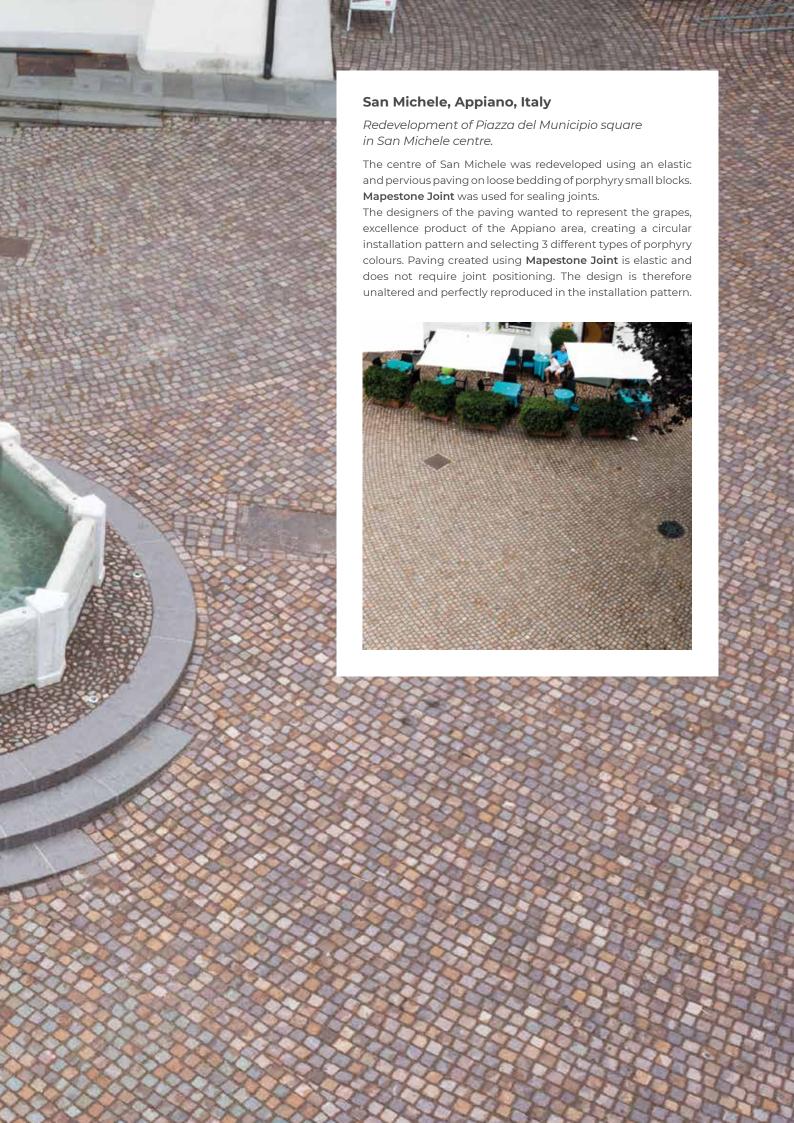
WHERE TO USE MAPESTONE JOINT SLAB

- Slabs
- Blocks















A **complete range of coloured products** for every requirements, for sealing ceramic, natural stone and glass mosaic floor and wall coverings.

Certified according to the most stringent international standards and with very low emission level of volatile organic compounds.

Mapei sealants are the results of constant research with the aim of introducing high quality products on the market to make application easy, quick and safe.

This document presents only some of the products of the sealant line, which are specifically used in ceramic, natural stone, glass mosaic covering as well as in architectural stone paving.



Mapesil AC

DESCRIPTION

Pure acetic silicone sealant, highly elastic and resistant to mould

Pure acetic silicone sealant, solvent-free and **mould-resistant** with **BioBlock**® technology, for compression and traction movements up to 25% of the width of joint. Available in all colours of **Mapei** grouts.



MOVEMENT ALLOWED MODULUS OF ELASTICITY AT 100% ELONGATION SHORE A	25%	WORKABILITY	10 minutes
		COLOURS	40 colours and transparent
		EMICODE	EC1 Plus - very low emission
	0.35 N/mm²	CONSUMPTION	3.1 meters per 310 ml cartridge (10x10 mm section)
		DACKACING	,
HARDNESS	20	PACKAGING	310 ml cartridges

AREAS OF USE













WIDE RANGE OF CERTIFICATIONS

European certification for use on façades, glazing, in healthcare settings and for pedestrian paving; CE marking mould- and chlorinated water-resistant.







HIGH FLEXIBILITY

Low modulus of elasticity, ideal for sealing joints subjected to large deformations.



HIGH THERMAL AND CHEMICAL RESISTANCE

With stands in continual use to temperatures from -40°C to +180°C.



MOULD-RESISTANT (BIOBLOCK®)

Excellent resistance to water. Mould-resistant.



SOLVENT-FREE

Pure acetic silicone sealant, solvent-free.



EXCELLENT DURABILITY

Remains elastic and highly adhesive, does not shrink, does not yellow and does not change colour.



WIDE RANGE OF COLOURS

 $40\ colours\ coordinated\ with\ Mapei\ grouts\ and\ transparent.$

WHERE TO USE

- · Glass.
- · Ceramics.
- Anodised aluminium.
- Sealing joints in ceramic and cement wall and floor coverings.
- Sealing joints between sanitary ware and ceramic tiles in kitchens, bathrooms and showers.
- Sealing expansion joints in swimming pools.
- Sealing glazing of door and window frames.

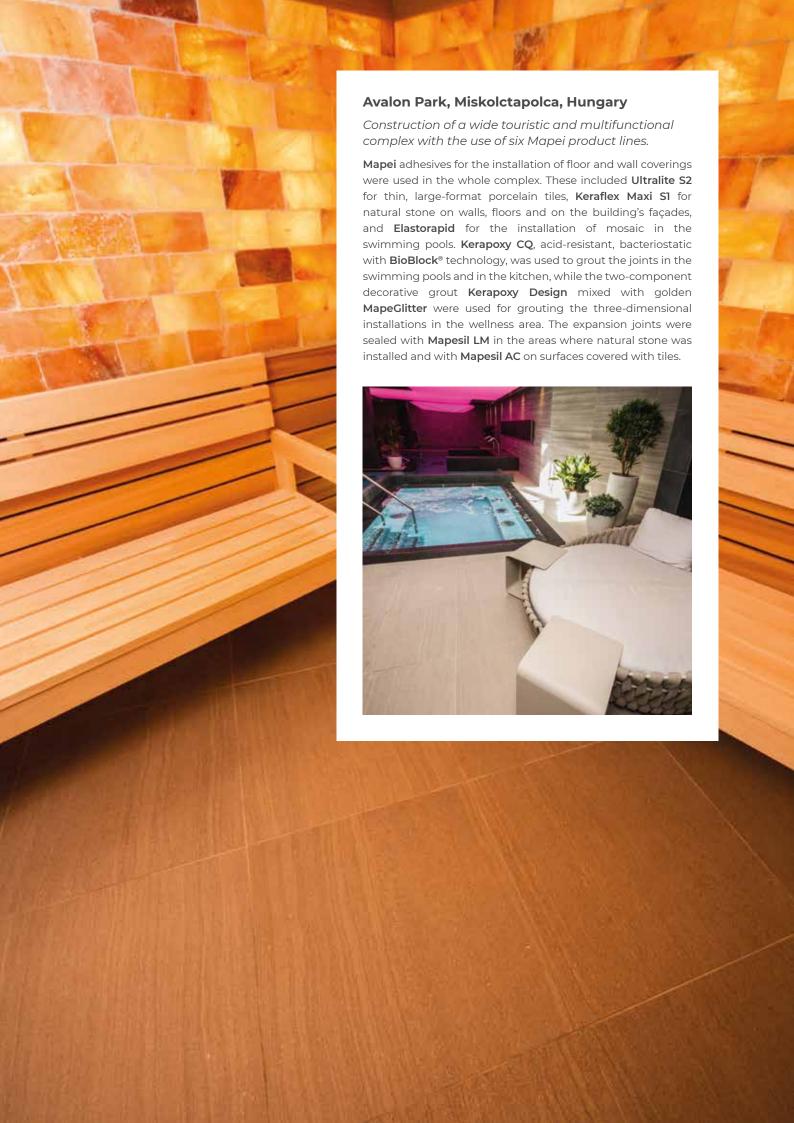
CERTIFICATIONS & TECHNOLOGIES

















Mapesil LM

DESCRIPTION

Neutral pure silicone sealant, highly flexible and mould-resistant for natural stones

Neutral pure silicone sealant, **mould-resistant** and solvent-free with **BioBlock**® technology **for stones**, for compression and traction movements up to 25% of the width of joint.



MOVEMENT	WORKABILITY	15 minutes
ALLOWED 25%	COLOURS	9 colours and transparent
MODULUS OF ELASTICITY AT	CONSUMPTION	3.1 meters per 310 ml cartridge (10x10 mm section)
100% ELONGATION 0.35 N/mm ²	PACKAGING	310 ml cartridges
SHORE A HARDNESS 21		

AREAS OF USE











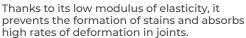


DOES NOT STAIN, IDEAL FOR SEALING STONE

No volatile plasticisers: particularly recommended for stones, marble, stone material and all materials sensitive to acids.







MOULD-RESISTANT



BioBlock® technology impedes the formation of mould on the surface of joints.

STABLE SEAL OVER THE YEARS



Excellent resistance to atmospheric agents and ageing, including when exposed to bad weather conditions, industrial surroundings, temperature changes and water.

SOLVENT-FREE, ODOURLESS



Neutral silicone, totally solvent-free, odourless.

WIDE RANGE OF CERTIFICATIONS



Suitable for stones and marble; European certification for use on façades, glazing, in healthcare centres and on pedestrian paving.

HIGHLY ADHESIVE



Bonds perfectly, including without primer, to most types of building material.

RANGE OF COLOURS



In 9 colours coordinated with the Mapei coloured grouts collection and transparent.

WHERE TO USE

- Stone (marble, granite, sandstone and quartz).
- All materials sensitive to acids and plasticising agents.
- Bricks, cellular concrete and varnished or enamelled wood.
- Non-absorbent substrates (glass, ceramics, clinker, enamelled surfaces, water and solvent-based varnishes, metals, etc.).
- Absorbent mineral substrates (concrete, render and fibre-cement).
- Sealing joints between pre-fabricated panels; window/door fittings and walls, different coating materials.

CERTIFICATIONS & TECHNOLOGIES











Mapeflex PU 45 FT

DESCRIPTION

One-component polyurethane hybrid sealant with a high modulus of elasticity

Rapid-hardening paintable polyurethane sealant and adhesive with a high modulus of elasticity for compression and traction movements up to 20% of the width of joint.



MOVEMENT ALLOWED 20%	COLOURS	White, 111 grey, 113 grey, brown, beige, black
MODULUS OF ELASTICITY AT 100% ELONGATION 0.80 N/mm²	CONSUMPTION	3 meters per 300 ml cartridge 6 meters per 600 ml sausage (10x10 mm section)
SHORE A HARDNESS 38	PACKAGING	300 ml cartridges, 600 ml sausages
WORKABILITY 35 minutes		

AREAS OF USE















ONE SINGLE PRODUCT FOR SEALING AND BONDING



HIGH RESISTANCE TO TRAFFIC



SUCKER EFFECT

For bonding on vertical surfaces.



PAINTABLE



HIGHLY ADHESIVE EVEN WITHOUT PRIMER



RAPID-HARDENING

Quickly ready for use.



CERTIFIED PRODUCT

European certification for use on façades and on pedestrian paving.

CERTIFICATIONS & TECHNOLOGIES





WHERE TO USE

- Sealing expansion and distribution joints in civil and industrial floors.
 - Industrial floors subject to vehicular traffic, including heavy vehicles, or chemical attack by hydrocarbons.
- Concrete floors for car-parks, supermarkets, shopping centres and warehouses.
- Ceramic floors and walls, including in areas subject to intense traffic (supermarkets, industrial environments).
- Used as an adhesive for flexible bonding of construction features instead of using screws, nails and lightweight fittings.
- Compatible with all absorbent mineral substrates, metal surfaces, varnished surfaces, wood, stone, brickwork and glass.







Mapeflex MS45

DESCRIPTION

One-component hybrid sealant with a high modulus of elasticity also for wet substrates

Paintable hybrid sealant and adhesive with a high modulus of elasticity also for wet substrates, for compression and traction movements up to 20% of the width of joint.



MOVEMENT		COLOURS	White, 111 grey, 113 grey, brown, black
ALLOWED	20%	EMICODE	EC1 Plus - very low emission
MODULUS OF ELASTICITY AT 100% ELONGATION	0.66 N/mm²	CONSUMPTION PACKAGING	3 meters per 300 ml cartridge 6 meters per 600 ml sausage (10x10 mm section)
SHORE A HARDNESS	43		300 ml cartridges,
WORKABILITY	35 minutes (+23°C - 50% R.H.)		600 ml sausages

AREAS OF USE















ONE SINGLE PRODUCT FOR SEALING AND BONDING

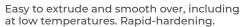




Suitable also for damp substrates. Does not blister, including at high moisture levels.



RAPID AND EASY TO APPLY





VERSATILE

Bonds to the most widely used materials.





HIGHLY ADHESIVE EVEN WITHOUT PRIMER



Forms a strong bond, including on compact or absorbent substrates.



HIGH RESISTANCE TO TRAFFIC



SAFE FOR INSTALLERS

Solvent-free and with very low emission of volatile organic compounds.



CERTIFIED PRODUCT

European certification for use on façades on pedestrian paving; certified EC1 Plus – very low emission of VOC; CE marking.

WHERE TO USE

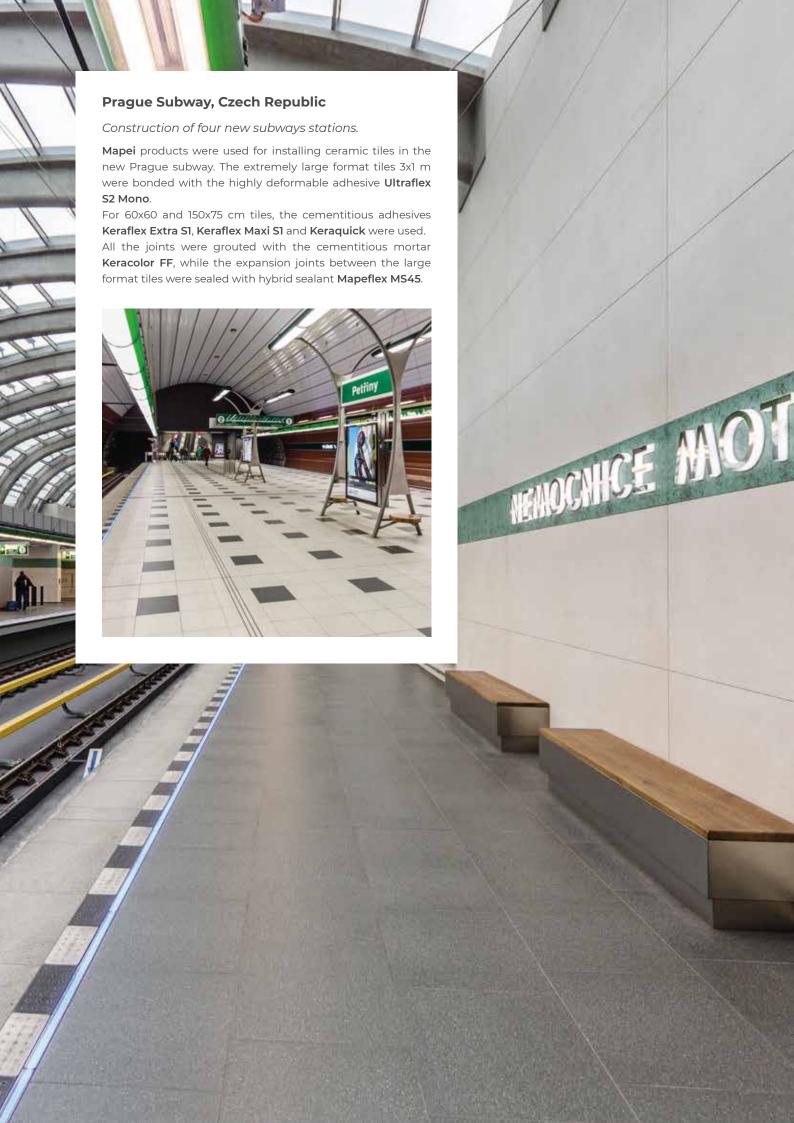
- Sealing expansion and distribution joints in traditional and ventilated façades; residential and industrial floors also subjected to intense
- Used as an adhesive for flexible bonding of construction features instead of using screws, nails and lightweight fittings.
- Compatible with a wide range of materials: cement, brickwork, steel, copper, aluminium, pre-painted surfaces, glass, gypsum, wood, ceramic and clinker, insulating materials and many types of plastic.
- Suitable also for wet substrates.

CERTIFICATIONS & TECHNOLOGIES











Mapeflex E-PU 21 SL

DESCRIPTION

Two-component, high-strength, castable epoxy-polyurethane sealant with high modulus of elasticity

Two-component, high-strength, castable epoxy-polyurethane sealant with high modulus of elasticity for compression and traction movements up to 10% of the width of joint.



MOVEMENT ALLOWED	10%	COLOURS	113 grey, colourless for custom colouring with Mapecolor Paste
ELONGATION AT BREAK	90%	CONSUMPTION	0.145 kg/metre (joint section 10 x 10 mm)
SHORE A HARDNESS	60	PACKAGING	5 kg bucket (A+B)
WORKABILITY	40 minutes		

AREAS OF USE













HIGH MECHANICAL STRENGTH

Withstands high mechanical stress due to pedestrian and vehicular traffic.



HIGH THERMAL

AND CHEMICAL RESISTANCE

Withstands weathering, temperature variation and chemicals. Withstands in continual use at temperatures between -30°C and +80°C.



EASY TO APPLY

Fluid consistency, castable within 40 minutes.



WITH HIGH MODULUS OF ELASTICITY

Suitable for sealing joints subject to small movements up to 10% of the width of joint.



BONDS PERFECTLY



SOLVENT-FREE

Epoxy-polyurethane, solvent-free sealant.



EXCELLENT DURABILITY

Even after several years of exposure to exterior stress, it remains elastic and highly adhesive. It does not shrink or yellow and its colour remains unchanged.



CUSTOMISED RANGE OF COLOURS

Available also in the colourless version to be coloured according to the needs of the customer with the coloured pastes **Mapecolor Paste**.

WHERE TO USE

- Sealing horizontal joints, in exterior and interior also use subject to **high mechanical stress**.
- Abrasion resistant sealing of joints in industrial floors and subject to heavy traffic, both in interior and exterior.
- Sealing joints where a castable, resistant to mechanical stress and to chemicals, water and vapor proof product is required.
- Sealing expansion and contraction joints in commercial, residential and industrial floors and in architectural paving.
- Sealing joints in ceramic floors subject to heavy traffic, both pedestrian and vehicular, such as supermarkets, warehouses, production areas, sidewalks, walkways, arcades and squares.



For further information about the application of the products always refer to the relevant technical data sheets available on the website ww.mapei.it.

The MAPEI Technical Service Department is available to identify the most suitable solution for your specific application.

EVERYTHING'S OK WITH MAPEL

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