



Mapecem[®] Quickpatch[®]

High-Performance Concrete Patch



DESCRIPTION

Mapecem Quickpatch is a versatile, fast-setting, cementitious material used for the patching of interior/exterior concrete surfaces including concrete floors, residential driveways, sidewalks and concrete pads. *Mapecem Quickpatch* features ease of placement, with a variable water ratio and outstanding workability. Light gray *Mapecem Quickpatch* can be applied from featheredge to 3" (7,5 cm) in confined areas. *Mapecem Quickpatch* sets fast for easy and cost-efficient patching of horizontal substrates before application of self-leveling underlayments, thus minimizing jobsite turnaround time.

FEATURES AND BENEFITS

- Natural gray to blend with existing concrete
- Ease of placement, with variable water ratios
- Fast-setting; can be coated in as little as 2 hours
- Freeze/thaw-stable
- Highly versatile: Featheredge to 1,5" (3,8 cm) neat and up to 3" (7,5 cm) when extended in confined areas
- *Mapecem Quickpatch* can be primed and covered with a leveler, MAPEI's *Concrete Renew™* or another topping in as little as 2 hours depending on temperature.
- *Mapecem Quickpatch* is compatible with most sealers, integral pigments, dyes and concrete stains.

INDUSTRY STANDARDS AND APPROVALS

LEED v3 Points Contribution

LEED Points

MR Credit 4, Recycled Content* Up to 2 points

IEQ Credit 4.1, Low-Emitting Materials –

Adhesives & Sealants1 point

** Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.*

WHERE TO USE

- For patching concrete floors
- For patching interior/exterior concrete including sidewalks and residential driveways
- For smoothing, including elevation changes in ramping
- For patching finished concrete surfaces where concrete's natural gray color is desired

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not apply over standing water.
- Do not use *Mapecem Quickpatch* as a crack filler.
- Do not add cement or chemical admixtures other than diluted *Planicrete® UA*.
- *Mapecem Quickpatch* can be applied from 41°F to 85°F (5°C to 29°C). Allow for extra curing time when temperatures are below 65°F (18°C). Follow hot- and cold-weather ACI guidelines when installing below 45°F (7°C) or above 85°F (29°C).



SUITABLE SUBSTRATES

- Structurally sound, stable, clean, horizontal concrete surfaces, both interior and exterior

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- Thoroughly clean the surface of any substance that could interfere with the bond of the installation material including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, laitance, loose toppings, foreign substances and adhesive residues.
- Concrete substrate and ambient temperatures must be between 41°F to 85°F (5°C to 29°C) before application. Temperatures must be maintained within this range for at least 4 hours after the installation of *Mapecem Quickpatch*.
- If necessary, mechanically remove weak concrete surface down to solid concrete, meeting at least 175 psi (1,21 MPa) in tensile bond strength.
- Concrete substrate should have a International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #1 to #3.
- If *Mapecem Quickpatch* is being used for a final finished surface, repair all cracks in the substrate using conventional repair techniques before applying *Mapecem Quickpatch*. Use an appropriate MAPEI product for crack repair (see the Technical Data Sheet for instructions).
- Concrete substrates should be SSD (saturate surface-dry).

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

1. Depending on the application and desired consistency, use the following mixing ratios for *Mapecem Quickpatch*:
 - 10-lb. (4,54-kg) bag: 0.81 to 1 U.S. qt. (0,77 to 0,95 L) of water
 - 25-lb. (11,3-kg) bag: 2.1 to 2.5 U.S. qts. (1,99 to 2,37 L) of water
 - 50-lb. (22,7-kg) bag: 4.1 to 5 U.S. qts. (3,88 to 4,73 L) of water
2. Into a clean mixing container, pour the required amount of cool, clean potable water and mix while slowly adding powder. The mixing ratio must remain consistent. Do not overwater material.
3. To increase product performance and durability, use *Planicrete UA* diluted at 3 parts water to 1 part *Planicrete UA* (refer to the Technical Data Sheet for *Planicrete UA*). Do not add cements or other chemical admixtures to *Mapecem Quickpatch*.

4. Mix with medium-speed drill (at 550 to 800 rpm), with a box paddle or other appropriate paddle for at least 2 to 3 minutes, ensuring a lump-free consistency.
5. For uses greater in depth than 1.5" (3,8 cm), *Mapecem Quickpatch* can be extended up to 30% with clean, 3/8" (10 mm) pea gravel.
6. Do not mix more material than can be applied in 15 to 20 minutes, and do not add additional water over the maximum limit.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Immediately after mixing, pour *Mapecem Quickpatch* onto the surface and bring it to elevation by the desired application techniques.
2. When *Mapecem Quickpatch* is being used as a final wear surface, apply an appropriate finish (such as a broom finish) shortly after *Mapecem Quickpatch* has been placed.
3. When rain is expected, do not apply before sealing the surface or until the product is well-cured.
4. *Mapecem Quickpatch* can be covered with a MAPEI leveler, tile-setting materials and other adhesives in as soon as 2 hours (depending on temperature) after application. Wood floors and moisture-sensitive adhesives can be used over *Mapecem Quickpatch* in as soon as 16 hours. Always use proper industry standards for the best results.

EXPANSION AND CONTROL JOINTS

- Honor all expansion and control joints. Cut them as soon as *Mapecem Quickpatch* has cured hard enough to walk on without damaging the surface.
- Do not allow *Mapecem Quickpatch* to bridge any moving expansion joint.

CURING

- *Mapecem Quickpatch* is self-curing; do not use a damp-curing method.
- When *Mapecem Quickpatch* is left as an exposed wear surface, seal it with *Mapefinish™ Wet Look* or an alternate water-based sealer as soon as 3 hours after material dries (when temperatures are above 70°F [21°C]). If a solvent-based sealer is used, allow the *Mapecem Quickpatch* application to dry for 7 days before applying the sealer.
- Avoid walking on the installed surface for at least 60 minutes after installation, depending on temperature and humidity conditions.

CLEANUP

- Wash hands and tools with water promptly before material hardens. Cured material must be mechanically removed.

Product Performance Properties

Laboratory Tests	Results
Compressive strength – ASTM C109	
4 hours	> 1,650 psi (11,4 MPa)
24 hours	> 2,700 psi (18,6 MPa)
7 days	> 3,700 psi (25,5 MPa)
28 days	> 4,000 psi (27,6 MPa)
Flexural strength – ASTM C348-02	
28 days	> 1,200 psi (8,28 MPa)

Shelf Life and Product Characteristics (before mixing)

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area
Physical state	Powder
Color	Natural gray

Application Properties

Mixing ratio	
For 10 lbs. (4,54 kg) of <i>Mapecem Quickpatch</i>	0.81 to 1 U.S. qt. (0,77 to 0,95 L) of water
For 25 lbs. (22,7 kg) of <i>Mapecem Quickpatch</i>	2.1 to 2.5 U.S. qts. (1,99 to 2,37 L) of water
For 50 lbs. (22,7 kg) of <i>Mapecem Quickpatch</i>	4.1 to 5 U.S. qts. (3,88 to 4,73 L) of water
Application temperature range	41°F to 85°F (5°C to 29°C)
Open time	5 to 20 minutes after applying
Pot life at 73°F (23°C)	20 minutes
Initial set at 73°F (23°C)	35 to 40 minutes
Final set at 73°F (23°C)	50 minutes
Drying/curing time	16 hours

Packaging

Size
Bag: 10 lbs. (4,54 kg)
Bag: 25 lbs. (11,3 kg)
Bag: 50 lbs. (22,7 kg)

Approximate Coverage*

Amount of Product at 1/4" (6 mm) Thickness	Coverage
10 lbs. (4,54 kg)	4 to 5 sq. ft. (0,37 to 0,46 m ²)
25 lbs. (11,3 kg)	10 to 12 sq. ft. (0,93 to 1,11 m ²)
50 lbs. (22,7 kg)	20 to 24 sq. ft. (1,86 to 2,23 m ²)

* Coverage shown at maximum water is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and setting practices.

Mapecem[®] Quickpatch



PROTECTION

- Protect the installation from traffic, dirt and dust and moisture until *Mapecem Quickpatch* is cured.
- Protect the installation from rain and fluid for 24 hours after application, and from freezing 24 hours after application.
- Do not expose *Mapecem Quickpatch* to rolling loads for at least 24 hours after installation.

Note: Cooler conditions require longer curing times for the installation before exposure to significant traffic can be permitted. Test all surface treatments on a small sample area, before application, to ensure the desired results.

RELATED DOCUMENT

ACI RAP Bulletin #7

RAP-7

Refer to the SDS for specific data related to health and safety as well as product handling.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

We proudly support the following industry organizations:



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Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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For the most current **BEST-BACKED™** product data and warranty information, visit www.mapei.com.

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