

PLANITOP QUICKPATCH

High-Performance Concrete Patching Mortar



DESCRIPTION

Planitop Quickpatch is a high-performance, fast-setting, cementitious material used for the patching of concrete surfaces.

FEATURES AND BENEFITS

- Natural grey colour to blend with existing concrete.
- Ease of placement, with variable water ratios.
- **Planitop Quickpatch** can be applied from 1 mm to 40 mm neat and from 40 mm to 75 mm neat in areas no larger than 2 m². Larger areas when applied thick will require **Planitop Quickpatch** to be bulked with pea gravel.
- **Planitop Quickpatch** can be primed and covered with a leveller, a cement-based overlay or a tile adhesive in as little as 90 minutes, depending on temperatures.
- Waterproofing and moisture barrier systems can be used over **Planitop Quickpatch** in as little as 16 hours.
- Floor coverings can be installed in as little as 16 hours after application as long as the existing subfloor meets the requirements of the mortars or adhesives used for installation.

WHERE TO USE

- For patching of both interior and exterior concrete surfaces.
- For smoothing, including elevation changes by ramping.

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not apply over standing water.
- Do not use **Planitop Quickpatch** as a crack filler.
- Do not add cement or chemical admixtures other than diluted **Planicrete SP**.
- **Planitop Quickpatch** can be applied from + 5°C to 30°C. Allow for extra curing time for temperatures below 20°C.
- Honor all joints through **Planitop Quickpatch**.
- Do not apply if rain or freezing temperatures are expected within 24 hours.
- Do not expose to rolling loads for at least 24 hours after installation.

SUITABLE SUBSTRATES

- Properly prepared concrete at least 28 days old

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 5°C to 30°C before application. Temperatures must be maintained within this range for at least 4 hours after the installation of **Planitop Quickpatch**.
- If necessary, mechanically remove weak concrete surfaces down to solid concrete, meeting at least 1.2 MPa in tensile bond strength.
- Concrete substrates must be mechanically prepared to an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #1 to #3.
- If **Planitop Quickpatch** is being used for a final finished surface, repair all cracks in the substrate using conventional repair techniques before applying **Planitop Quickpatch**. Use an appropriate MAPEI product for crack repair (see the Technical Data Sheet [TDS] for instructions).
- Concrete substrates should be SSD (saturated 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 **Planitop Quickpatch**:
 - 5 kg bag: approx. 1.0 - 1.1 L of water
 - 20 kg bag: 4.0 - 4.2 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.
3. To increase product performance and durability, use **Planicrete SP** diluted at 1 part water to 1 part **Planicrete SP** (refer to the TDS for **Planicrete SP**).
4. Mix with a 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 at greater thicknesses than 40 mm in areas more than 2 m², **Planitop Quickpatch** must be extended 30% by weight with clean, 6 - 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, apply a scrubcoat or slurry coat of **Planitop Quickpatch** onto the surface and bring it to elevation by the desired application techniques.
2. When **Planitop Quickpatch** is being used as a final wear surface, apply an appropriate finish (such as a broom finish) shortly after **Planitop Quickpatch** has been placed.
3. When rain is expected, do not apply before sealing the surface or until the product is cured.

CLEANUP

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

CURING

- **Planitop Quickpatch** is self-curing; do not use a damp-curing method.

Product Performance Properties

Laboratory Tests	Results
Compressive strength – ASTM C109 (modified)	
4 hours	> 11 MPa
24 hours	> 18 MPa
7 days	> 25 MPa
28 days	> 27 MPa
Flexural strength – ASTM C348 (modified)	
28 days	> 8 MPa
VOCs (Rule #1168 of California's SCAQMD)	0 g/L

Shelf Life and Product Characteristics (before mixing)

Shelf life	1 year when stored in original, unopened packaging at 23°C in a dry area
Physical state	Powder
Color	Natural grey

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

Mixing ratio	
5 kg bag of Planitop Quickpatch	1.0 - 1.1 L of water
20 kg bag of Planitop Quickpatch	4.0 - 4.2 L of water
Application temperature range	5°C to 30°C
Pot life at 23°C	20 minutes
Initial set at 23°C	< 40 minutes
Final set at 23°C	< 1 hour
Curing time	16 to 24 hours

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.

Packaging

Size
Bag: 5 kg Alu Pack (Boxes of 4 x 5 kg bags)
Bag: 20 kg (Pallets of 64 x 20 kg bags)

Planitop Quickpatch bags maintain their own properties for 12 months if stored in a dry place in the original sealed packaging. Prolonged storage may extend the setting time without altering the final performance.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

For complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet available for download from our website www.mapei.com.au.

PRODUCT FOR PROFESSIONAL USE.

Approximate Coverage*

Amount of Product at 3 mm thickness	Coverage
5 kg	Approx. 1 m ²
20 kg	Approx. 4.5 m ²

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

WARNING

Although the technical details and recommendations contained in this report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com.au

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.com.au

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

KEVMOR
TRADE SUPPLIES

Kevmor Trade Supplies

11 Belmont Avenue, Belmont WA 6104

Tel: 08 9277 7177

E: sales@kevmor.com.au

W: kevmor.com.au

Mapei Australia Pty Ltd

180 Viking Drive, Wacol, Queensland, 4076



+61 7 3276 5000



www.mapei.com.au



sales@mapei.com.au

01310-01-2024 AUS

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution.

