

Planitop 200

Water-Repellent Skimcoating Mortar for Concrete and Glass/Porcelain Mosaics



FOR PROFESSIONAL USE ONLY

DESCRIPTION

Planitop[®] 200 is a water-repellent skimcoating mortar developed with a blend of special binders and admixtures, selected aggregate and powder polymers, formulated to produce high bond strength and easy finishing. Mixed only with water, *Planitop 200* is available in gray and white.

FEATURES AND BENEFITS

- Ready-to-use and one-component cementitious mortar, needing just the addition of water
- Smooths painted walls that are sound, clean and well adhered
- Levels and finishes concrete walls and masonry
- Concrete finish for glass and porcelain mosaics
- Smooths gypsum wallboard
- Can be applied up to 1/8" (3 mm) in thickness
- Can be painted or pigmented

INDUSTRY STANDARDS AND APPROVALS

Green certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- For coating ceramic or glass mosaic substrates
- Interior/exterior concrete and masonry walls
- Acrylic-painted walls
- Drywall panels

SUITABLE SUBSTRATES

- Properly prepared concrete and mortar surfaces at least 28 days old, as well as glass and porcelain mosaics, acrylic paints and drywall panels – all structurally stable, sound and free from dust

Contact 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, tar, asphalt, wax, oil, grease, form-release agents, laitance, loose toppings, foreign substances and any other residues. Ensure that painted surfaces are well bonded to the substrate.
- Prepare surfaces by mechanical methods to remove any loose or crumbling sections.
- Where possible, pressure-wash surfaces for complete removal of all dust residue and wait until all surface water disappears before applying *Planitop 200*.
- Ensure that painted surfaces as well as glass or porcelain mosaics are dry before application of *Planitop 200*.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Pour 5.25 to 6 U.S. qts. (4,97 to 5,68 L) of clean, cool and potable water into a clean bucket and slowly add 55 lbs. (24,9 kg) of *Planitop 200*.
2. Mix for about 3 minutes to a lump-free, homogeneous consistency with a low-speed mixer and ribbon paddle. Do not mix manually.

PRODUCT APPLICATION

Read all applicable instructions thoroughly before installation.

1. Use a trowel to apply a layer of mortar up to a maximum thickness of 1/8" (3 mm).
2. Smooth to a finish by trowel or dampened sponge float.
3. In hot or windy conditions, spray water on the surface of *Planitop 200* when it starts to set (when pressed lightly without leaving fingerprints) and over the next 48 hours (once the mortar has hardened).

CURING

- Moist-cure with a fine mist of water for 48 hours immediately following the finishing.
- Protect the applied *Planitop 200* from direct sunlight, wind and frost for 48 hours.

CLEANUP

- Due to the high bond strength of *Planitop 200*, wash tools immediately after use and before the material sets. Once the mortar has set, it must be mechanically removed.

LIMITATIONS

- Apply *Planitop 200* at ambient and surface temperatures between 41°F and 95°F (5°C and 35°C).
- For best results, condition *Planitop 200* from 65°F to 85°F (18°C to 29°C) at least 24 hours before use.
- Do not add cement or other additives to *Planitop 200*.
- Use caution when applying *Planitop 200* on surfaces exposed to direct sunlight, or under high wind conditions, as rapid drying may occur.
- Do not apply products containing solvents on *Planitop 200*.
- For application in temperatures below or above the recommended range, consult cold- or hot-weather guidelines from the American Concrete Institute (ACI).

Product Performance Properties

Laboratory Tests	Results
Bulk density	81.2 lbs. per cu. ft. (1,3 g per cc)
pH	> 12.5
Dry solids content	100%
Compressive strength – ASTM C109 (CAN/CSA-A5)	
1 day	725 psi (5 MPa)
7 days	1,740 psi (12 MPa)
28 days	2,900 psi (20 MPa)
Flexural strength – ASTM C348	
1 day	363 psi (2,50 MPa)
7 days	580 psi (4 MPa)
28 days	725 psi (5 MPa)
Tensile pullout bond strength (concrete)	
28 days	290 psi (2 MPa)
Tensile pullout bond strength (ceramic and porcelain tiles)	
28 days	200 psi (1,38 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
Colors	Gray; white

Application Properties

Mixing ratio	5.25 to 6 U.S. qts. (4,97 to 5,68 L) of water per 55 lbs. (24,9 kg) of <i>Planitop 200</i>
Consistency of mix	Thixotropic and trowelable
Application temperature range	41°F to 95°F (5°C to 35°C)
Pot life at 73°F (23°C)	About 1.5 hours
Initial set	> 2 hours
Final set	< 8 hours
Waiting time before painting	7 days

CSI Division Classifications

Maintenance of Concrete	03 01 00
Water Repellents	07 19 00

Packaging

Size
Bag: 55 lbs. (24,9 kg), gray
Bag: 55 lbs. (24,9 kg), white

Approximate Coverage*

per 55 lbs. (24,9 kg) mixed with 6 U.S. qts. (5,68 L) of water

Thickness	Coverage
1/16" (1,5 mm)	130 sq. ft. (12,1 m ²)

* Coverage varies depending on the amount of water utilized.

ADDITIONAL INFORMATION

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

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

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 nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **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.**

CONTACT INFORMATION

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Customer Service

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

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