



# Planitop 207

**Water-repellent cementitious skimming mortar with a medium-grain, natural finish for concrete, plastic, glass and porcelain coatings**



## WHERE TO USE

Medium-grained, natural-finish skimming layer for internal and external concrete, cementitious and lime-mortar render, old quartz paint, scratch-effect plastic coatings and glass or porcelain mosaics.

## Some application examples

- Smoothing and finishing masonry, concrete walls, cementitious and lime-cement render before painting.
- Smoothing over walls, including walls painted with washable acrylic and quartz-based paint, plastic coatings, etc., as long as they are sound, clean and well-bonded.
- Smoothing over glass or porcelain mosaics on walls.
- Smoothing and levelling plasterboard panels (the panels must be treated beforehand with **Primer G**).
- Smoothing and levelling mineral wood panels (such as Eraclit®).

## TECHNICAL CHARACTERISTICS

**Planitop 207** is a one-component, medium-grained, water-repellent, normal-hardening cementitious mortar, available in grey or white, made from special high-strength binders, selected aggregates, special admixtures and synthetic polymers in powder form according to a formula developed in MAPEI's research laboratories.

Its special composition gives the mortar obtained by

mixing **Planitop 207** with water a high bond strength and makes it very easy to spread with a smooth, metallic trowel, and is easily finished using a sponge pad.

**Planitop 207** may be applied at a thickness of up to 3 mm. Thicker layers up to a maximum of 6 mm must be applied in two layers. Place **Mapenet 150** alkali-resistant glass fibre mesh (which conforms to the ETAG 004 guidelines) with a mesh size of 4 x 4.5 mm embedded between the first and second layer.

**Mapenet 150** must also be used when the surface to be skimmed is made up of different types of material.

In good weather, coloured finishing products from the **Silexcolor**, **Silancolor**, **Quarzolite**, **Elastocolor**, **Colorite** or **Dursilite** ranges may be applied one week after applying on **Planitop 207**. The latter product may be used for decorating internal or external surfaces as long as they are partially covered and protected from direct exposure to the sun and rain.

**Planitop 207** meets the main requirements of EN 1504-9 ("Products and systems for protecting and repairing concrete structures. Definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems") and the minimum requirements of EN 1504-2 coating (C) according to principles MC and IR ("Concrete surface protection systems") and is classified as GP ("General



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Application of Planitop 207



Floating of Planitop 207

purpose mortar for internal/external render”), category CS IV according to EN 998-1.

## RECOMMENDATIONS

- Do not use **Planitop 207** for thick layers (> 6 mm: use **Mapegrout LM2K**, **Mapegrout 430** or **Planitop Smooth & Repair**).
- Do not apply **Planitop 207** if the temperature is lower than +5°C.
- Do not add cement or aggregates to **Planitop 207**.
- If hydraulic structures or surfaces subject to abrasion need to be protected, use **Mapefinish** or **Mapefinish HD**.
- Before applying, make sure the substrate is solid, consistent and free from dust.
- Do not use or apply **Planitop 207** if there are strong winds or on surfaces under direct sunlight.
- If two layers are applied insert **Mapenet 150**.
- Do not apply products containing solvents on **Planitop 207**.
- Do not apply **Planitop 207** on de-humidifying render. Use **Mape-Antique** or coloured finishes from the **Silexcolor** and **Silancolor** ranges of products.

## APPLICATION PROCEDURE

### Preparation of the substrate

Surfaces to be treated must be perfectly clean and solid. If the product is to be applied on old paintwork, it must be solid and well-bonded to the substrate.

The substrate must be carefully prepared by mechanically removing all loose parts of the old finishing coat and washing the surfaces to be treated with water to remove all traces of dust which would otherwise compromise the bond. Before applying **Planitop 207**, wait until the film of water on the surface has evaporated or dry it off with compressed air or dry rags. Absorbent substrates, such as render and concrete, must be wetted with water. Substrates with old paintwork, plastic coatings or glass or porcelain mosaics must be perfectly dry when applying **Planitop 207**. If the substrate is powdery after cleaning, indicating a lack of surface cohesion, apply a primer from the MAPEI range to consolidate the surface (please contact the Technical Services Department).

### Preparation of the mortar

Pour 4.25-4.75 litres of water into a suitable clean container and slowly add the contents of a 25 kg bag of **Planitop 207** while mixing. Keep mixing for several minutes, making sure that all traces of powder are removed from the sides and bottom of the container. Keep mixing until the blend is completely homogenous (completely lump-free). A low-speed mechanical mixer is recommended for

this operation to prevent entraining too much air into the mix. Avoid mixing the product manually.

## Application of the mortar

Spread the mortar on the surface prepared as described above using a smooth metallic trowel at a thickness of up to 3 mm. The surface of **Planitop 207** may be finished off after a few minutes with a conventional wooden or damp sponge float. During hot or windy weather, or in particularly hot areas, spray water on the surface of the smoothing compound when it starts to set (that is, when it may be pressed lightly without leaving fingerprints) and over the next few days when the mortar has completely hardened, to avoid quick drying and hygrometric shrinkage which may cause cracks to form.

## PRECAUTIONS TO BE TAKEN DURING AND AFTER APPLICATION

No particular precautions need to be taken if the temperature is around +20°C. If the temperature is particularly high or low, or if there are strong breezes, follow the normal precautions for cementitious materials. To get the best finish and protection for the substrate, we recommend using a coloured finishing product from the **Silexcolor**, **Silancolor**, **Elastocolor**, **Quarzolite**, **Colorite** or **Dursilite** ranges. The latter product may only be used for decorating internal or external surfaces if they are partially covered and protected.

## Cleaning

Because of the high bond strength of **Planitop 207**, we recommend cleaning tools with water before the mortar starts to set. Once the mortar has set, tools must be cleaned using mechanical means.

## COLOUR

Grey or white.

## CONSUMPTION

Approx. 1.5 kg/m<sup>2</sup> per mm of thickness.

## PACKAGING

25 kg bags.

## STORAGE

**Planitop 207** may be stored for up to 12 months in its original packaging in a dry place.

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

**Planitop 207** is irritant, it contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention.

**Planitop 207: water-repellent cementitious skimming mortar with a medium, natural finish for internal and external concrete and render and plastic, glass and porcelain coatings, in compliance with EN 1504-2 and EN 998-1 standards**

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

|   |               |
|---|---------------|
| Consistency:                                | powder        |
| Colour:                                     | grey or white |
| Maximum size of aggregate (EN 1015-1) (mm): | 0.7           |
| Bulk density (kg/m <sup>3</sup> ):          | 1,300         |
| Dry solids content (%):                     | 100           |

### APPLICATION DATA OF PRODUCT (at +20°C - 50% U.R.)

|   |  |
|---|--|
| Colour of mix:  | grey or white  |
| Mixing ratio:   | 100 parts of <b>Planitop 207</b> with 17-19 parts of water (4.25-4.75 litres of water per 25 kg bag) |
| Consistency of mix:   | thixotropic-trowellable  |
| Density of the mix (EN 1015-6) (kg/m <sup>3</sup> ):  | 1,800  |
| Maximum applicable thickness (mm):  | 3  |
| Application temperature range:  | from +5°C to +35°C   |
| Pot life of mix:  | approx. 1 hour   |
| Minimum waiting time before painting with coloured finishing products from the Silexcolor, Silancolor, Elastocolor, Quarzolite, Colorite or Dursilite ranges: | 7 days   |

### FINAL PERFORMANCE (18% mixing water)

| Performance characteristics   | Test method   | Requirements according to EN 1504-2 coating (C) principles MC and IR                                    | Performance of product   |
|---|---------------|---|--|
| Compressive strength (N/mm <sup>2</sup> ):  | EN 12190      | not required  | > 25 (after 28 days)   |
| Bond strength on concrete (substrate in MC 0.40) according to EN 1766 (N/mm <sup>2</sup> ):                   | EN 1542       | For rigid systems with no traffic: ≥ 1.0<br>with traffic: ≥ 2.0   | > 2.0 (after 28 days)  |
| Adhesion on substrate (N/mm <sup>2</sup> ):<br>- plastic coating:<br>- glass coating:<br>- porcelain coating: | /             | not required  | ≥ 1.5 <sup>(*)</sup><br>≥ 1.0<br>≥ 0.8                         |
| Impermeability expressed as coefficient of permeability to free water (kg/m <sup>2</sup> ·h <sup>0.5</sup> ): | EN 1062/3     | W < 0.1   | W < 0.1 - Class III (low permeability) according to EN 1062-1  |
| Permeability to water vapour - equivalent air thickness S <sub>D</sub> - (m):                                 | EN ISO 7783/1 | Class I S <sub>D</sub> < 5 m<br>Class II 5 m ≤ S <sub>D</sub> ≤ 50 m<br>Class III S <sub>D</sub> > 50 m | S <sub>D</sub> < 0.5<br>Class I (permeability to water vapour) |
| Performance characteristics   | Test method   | Requirements according to EN 998-1 type GP-CS IV  | Performance of product   |
| Compressive strength after 28 days (N/mm <sup>2</sup> ):  | EN 1015-11    | CS I (from 0.4 to 2.5)  | Category CS IV   |
|   |               | CS II (from 1.5 to 5.0)   |  |
|   |               | CS III (from 3.5 to 7.5)  |  |
|   |               | CS IV (≥ 6)   |  |
| Bond strength to substrate (concrete) (N/mm <sup>2</sup> ):   | EN 1015-12    | declared value and failure mode (FP)  | ≥ 1.0<br>Failure mode (FP) = C                                 |
| Capillary action water absorption [kg/(m <sup>2</sup> ·min <sup>0.5</sup> ):                                  | EN 1015-18    | W 0 (not specified)<br>W1 (≤ 0.40)<br>W2 (≤ 0.20)   | Category W 2   |
| Coefficient of permeability to water vapour (μ):  | EN 1015-19    | declared value  | ≤ 50   |
| Thermal conductivity (λ <sub>10,dry</sub> ) (W/m·K):  | EN 1745       | chart value   | 0.68 (P = 50%)   |
| Reaction to fire:   | EN 13501-1    | Euroclass   | E  |

<sup>(\*)</sup> Adhesion may vary according to the type of plastic coating.

# Planitop 207



It is recommended to use protective gloves and goggles.  
For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

## WARNING

*Although the technical details and recommendations contained in this product data sheet 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 application; 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](http://www.mapei.com)**

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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