



# Planitop 510

**Lime-cement skimming mortar with a fine, natural finish for render**



## WHERE TO USE

Skimming layers with a fine, natural finish on “fresh” or “hardened” rough internal and external traditional or pre-blended render, before decorating with a thin coat of mineral or synthetic paint or coating.

### Some application examples

- Natural finishes on “fresh” or “hardened” lime-mortar or pre-blended render on internal and external surfaces, before applying coloured paint or coating.
- Natural finishes on “fresh” or “hardened” pre-blended or lime-mortar render on walls and ceilings.

## TECHNICAL CHARACTERISTICS

**Planitop 510** is a one-component, pre-blended, normal hardening, powdered fine-graded skimming mortar available in grey and white, made from aerated and hydraulic binders, selected limestone and quartz sand and special powdered additives, according to a formula developed in the MAPEI research laboratories. Thanks to its special composition, skimming mortar obtained by mixing **Planitop 510** with water has high adhesion strength. It is characterised by its excellent free-flowing property, which makes it easy to apply with a metal trowel and, where required, quick to finish off using a sponge float. **Planitop 510** may be applied in layers up to 3 mm thick. Because of its fine finish, **Planitop 510** is particularly suitable for skimming with a coloured product, such as **Silexcolor**

## Tonachino, Silancolor Tonachino or Quarzolite

**Tonachino**, although there are no particular reasons against the surface being painted directly with products such as **Silexcolor Paint**, **Silancolor Paint**, **Quarzolite Paint**, **Elastocolor Paint**, **Colorite Performance** or **Dursilite**. 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. In good weather, coloured render or paint may be applied 4 weeks after applying **Planitop 510**.

According to EN 998-1 Standards, **Planitop 510** is classified as GP-purpose natural finish skimming mortar (“General purpose mortar for internal/external render”), category CS II.

## RECOMMENDATIONS

- Do not use **Planitop 510** for skimming layers thicker than 3 mm.
- Do not apply **Planitop 510** if the temperature is lower than +5°C or higher than +35°C.
- Do not add cement, lime, admixes or aggregates to **Planitop 510**.
- Do not apply **Planitop 510** on painted surfaces.
- Do not apply **Planitop 510** on plastic coating materials (use **Planitop 200**, **Planitop 207** or **Planitop 210**).

# Planitop 510



Application of  
Planitop 510



Floating of  
Planitop 510

- Do not use **Planitop 510** for skimming cementitious substrates or ceramic or wooden floors.
- Treat gypsum-based render with **Primer G** before applying **Planitop 510**.
- Do not apply **Planitop 510** on dirty or crumbling surfaces.
- Do not apply **Planitop 510** on concrete substrates (use **Planitop 530** or **Planitop 540**).
- Do not use **Planitop 510** if there are strong winds or on surfaces exposed to direct sunlight.
- Do not apply on de-humidifying render (use **Mape-Antique** range of products or a coloured finishing product from the **Silexcolor** or **Silancolor** ranges).

## APPLICATION PROCEDURE

### Preparing the substrate

Surfaces must be perfectly clean and solid. If the substrate is dirty, we recommend thoroughly cleaning all the surfaces to be skimmed with water to remove any traces of dust which could impede successful adhesion. Before applying **Planitop 510**, completely remove the film of surface water. If the substrate is powdery after cleaning, which indicates poor surface cohesion, apply a primer from the MAPEI range (please contact the Technical Services Department).

### Preparation of the skimming mortar

Pour 7-7.5 litres of water into a suitable clean container and slowly add the contents of a 25 kg bag of **Planitop 510** 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 completely blended (with no lumps). A low-speed mechanical mixer is recommended for this operation to prevent entraining too much air into the mix. In order to allow the additives in the product to be completely dispersed and, therefore, to carry out their function correctly, we recommend leaving the mix to stand for approximately 3 minutes after preparation, and to remix it briefly immediately before application. Avoid mixing the product manually.

### Application of the skimming mortar

Spread the skimming mortar on the surface in layers up to 3 mm thick using a smooth metal trowel. Absorbent substrates must be dampened with water before applying the product. Finish the surface of **Planitop 510** a few minutes after application using the same trowel or with a traditional plastic float after approximately 30 minutes. 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 winds, follow the normal precautions for cementitious materials. To get an excellent finish and protection of the surface, we recommend applying a finishing product from the **Silexcolor**, **Silancolor**, **Quarzolite**, **Elastocolor**, **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

Fresh mortar may be removed from tools used to prepare and apply the mortar with running water. Once hardened, cleaning is much more difficult, and it must be removed mechanically.

## COLOUR

Grey or white.

## CONSUMPTION

approx. 1.3 kg/m<sup>2</sup> per mm of thickness.

## PACKAGING

25 kg bags.

## STORAGE

If stored in a dry, covered area in its original packaging, the product remains stable for 12 months.

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

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Planitop 510** 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.

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.

**Planitop 510: lime and cement-based skimming mortar with a fine, natural finish for internal and external render in compliance with EN 998-1 Standards; classified GP; category CS II**

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	powder
Colour:	grey or white
Maximum size of aggregate (EN 1015-1) (mm):	0.4
Bulk density (kg/m <sup>3</sup> ):	1,200
Dry solids content (%):	100

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

Colour of mix:	grey or white
Mixing ratio:	100 parts of <b>Planitop 510</b> with 28-31 parts of water (7-7.75 litres of water per 25 kg bag of product)
Consistency of mix:	thixotropic-trowellable
Density of mix (EN 1015-6) (kg/m <sup>3</sup> ):	1,650
Application temperature range:	from +5°C to +35°C
Pot life of mix (EN 1015-9):	approximately 1 hour
Maximum applied thickness (mm):	3
Waiting time before finishing with float:	approximately 30 min.
Minimum waiting time before painting with a coloured finishing product from the Silexcolor, Silancolor, Elastocolor, Quarzolite, Colorite or Dursilite ranges:	28 days

### FINAL PERFORMANCE (29% mixing water: mixed according to EN 1015-2)

Performance characteristic	Test method	Requirements according to EN 998-1	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 II
		CS II (from 1.5 to 5.0)	
		CS III (from 3.5 to 7.5)	
		CS IV (≥ 6)	
Adhesion to substrate (render) (N/mm <sup>2</sup> ):	EN 1015-12	declared value and failure mode (FP)	≥ 0.5 Failure mode (FP) = B
Capillary action water absorption [kg/(m <sup>2</sup> ·min <sup>0.5</sup> )]:	EN 1015-18	from category W 0 to category W 2	Category W 0
Coefficient of permeability to water vapour (μ):	EN 1015-19	declared value	≤ 16
Thermal conductivity (λ <sub>10,dry</sub> ) (W/m·K):	EN 1745	chart value	0.41 (P = 50%)
Reaction to fire:	EN 13501-1	Euroclass	A1

# Planitop 510



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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