

Planitop 520

**Lime-cement based
smooth finishing
compound for interior
and exterior renders,
to be applied
“fresh on fresh”
up to 3 mm thick**



WHERE TO USE

Smooth finishing of coarse traditional or prepacked renders for interiors and exteriors using the “fresh on fresh” technique before decoration with a thin coat of paint or mineral and synthetic coatings.

Some application examples

- Smooth finishing of cement lime mortar or prepacked fresh renders (within 24 hours of its application), for interiors and exteriors, before painting or applying coloured coatings.
- Smooth finishing of fresh prepacked and cement lime mortar renders on walls and ceilings.

TECHNICAL CHARACTERISTICS

Planitop 520 is a one component prepacked smoothing compound with standard hardening available in light grey and white, based on hydraulic and aerated binders, selected lime and quartz sands and special powder additives prepared according to a special formula developed in the MAPEI Research laboratories.

Thanks to its special composition, the material obtained by mixing **Planitop 520** with water has a high bonding strength and is easy to apply with a metal trowel even on coarse renders. Furthermore, it can be quickly finished with a sponge float.

In good weather, coloured finishes from the **Silexcolor** or **Silancolor** range can be carried out after 3-4 weeks from the application of **Planitop 520**.

RECOMMENDATIONS

- Do not use **Planitop 520** for finishing thickness above 3 mm in a single coat.
- Do not apply **Planitop 520** at temperatures below +5°C or above +35°C.
- Do not add cement, lime, additives or aggregates to **Planitop 520**.
- Do not apply **Planitop 520** on painted surfaces.
- Do not apply **Planitop 520** on plastic coatings (use **Planitop 200**).
- Do not use **Planitop 520** to smooth cementitious substrates, ceramic or wooden floors.
- Do not apply **Planitop 520** on gypsum based renders.
- Do not apply **Planitop 520** on cured renders.
- Do not use **Planitop 520** on windy days or when the surfaces are in direct sunlight.
- Do not apply on dehumidified renders (use **Mape-Antique FC** finishing or **Silexcolor Tonachino** or **Silancolor Tonachino** coloured finishings).

APPLICATION PROCEDURE

Preparing the substrate

The render to be levelled must be fresh (not cured for more than 24 hours), even and brushed to remove any surface laitance and loose particles.

Planitop 520



Applying Planitop 520 with a metal trowel



Applying Planitop 520 with a metal trowel

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Appearance:	powder
Colour:	light grey - white
Bulk density (kg/m³):	1,500
Maximum diameter of aggregate (µm):	400
Dry solid content (%):	100
Storage:	12 months in a dry place in the unopened original packaging
Hazard classification according to EC 1999/45:	irritant. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3824 50 90
APPLICATION DATA (at +23°C and 50% R.H.)	
Colour of mix:	light grey
Mix ratio of mix:	one 25 kg bag with 7 l of water
Density of mix (kg/m³):	1,740
pH of mix:	12-12.5
Pot life of mix:	approx. 2 hrs
Application temperature range:	from +5°C to +35°C
Max thickness per coat (mm):	3
Waiting time between coats:	30 mins.
Waiting time before float finishing:	15 mins.
Waiting time before painting with the coloured finishes from the Silexcolor, Silancolor and Elastocolor ranges:	21-28 days
FINAL PERFORMANCE	
Compressive strength according to EN 196/1 (N/mm²): - after 28 days (+23°C and 50% R.H.):	> 2
Flexural strength (N/mm²): - after 28 days (+23°C and 50% R.H.):	> 1.5

Preparing the finishing compound

Pour approximately 7 litres of water into a clean container and, while mixing, slowly add a 25 kg bag of **Planitop 520**.

Mix for several minutes making sure to remove any unblended powder from the bottom and the sides of the container.

Mix until a homogeneous, completely lump-free mixture is obtained. It is very useful to use a low speed mechanical stirrer in order to avoid excess air.

In order to completely disperse the contained additives, let the mixture stand for approximately 3 minutes after its preparation. Mix briefly before use. Avoid preparing the mix manually.

Applying the finishing compound

Apply the levelling compound (maximum 3 mm thick) with a flat metal trowel to the render surface (within 24 hours of its application). Make sure to completely and evenly cover the substrate.

If more than a 3 mm coat is needed, apply a second coat after approximately 30 minutes.

The finishing of **Planitop 520** can be carried out with a flat metal trowel some minutes after its application or with a sponge float after 15 minutes. In high temperatures, windy or sunny days, it is recommended to wet the surface with water with a fine mist spray after it begins to set (when the product is not "markable" with finger pressure) and during the following days when the mortar has completely cured. This is to avoid rapid drying and hygroscopic shrinkage that could cause cracks.

Instructions to be followed during and after application

No particular precautions need to be taken at temperatures around +20°C.

At high or low temperatures or strong ventilation, the normal precautions for the use of cementitious materials need to be taken.

For a better finish and protective result, it is suggested to use the coloured finishes from the **Silexcolor**, **Silancolor** and **Elastocolor** ranges.

Cleaning

It is recommended to wash working tools with water before the mortar hardens. Once **Planitop 520** hardens, it is very difficult to remove and tools can only be cleaned by mechanical means.

CONSUMPTION

Approximately 1.35 kg/m² per mm of thickness.

PACKAGING

25 kg bags.

STORAGE

Planitop 520 can be stored for 12 months in the original packaging and in a dry sheltered place.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

It contains cement and lime that on contact with sweat or other body fluids produces an irritant alkaline reaction and could cause serious damage to the eyes. Wear protective gloves and goggles. For further information refer to the Safety Data Sheet.

FOR PROFESSIONALS.

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 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.

**All relevant references
for the product are available
upon request and from
www.mapei.com**

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