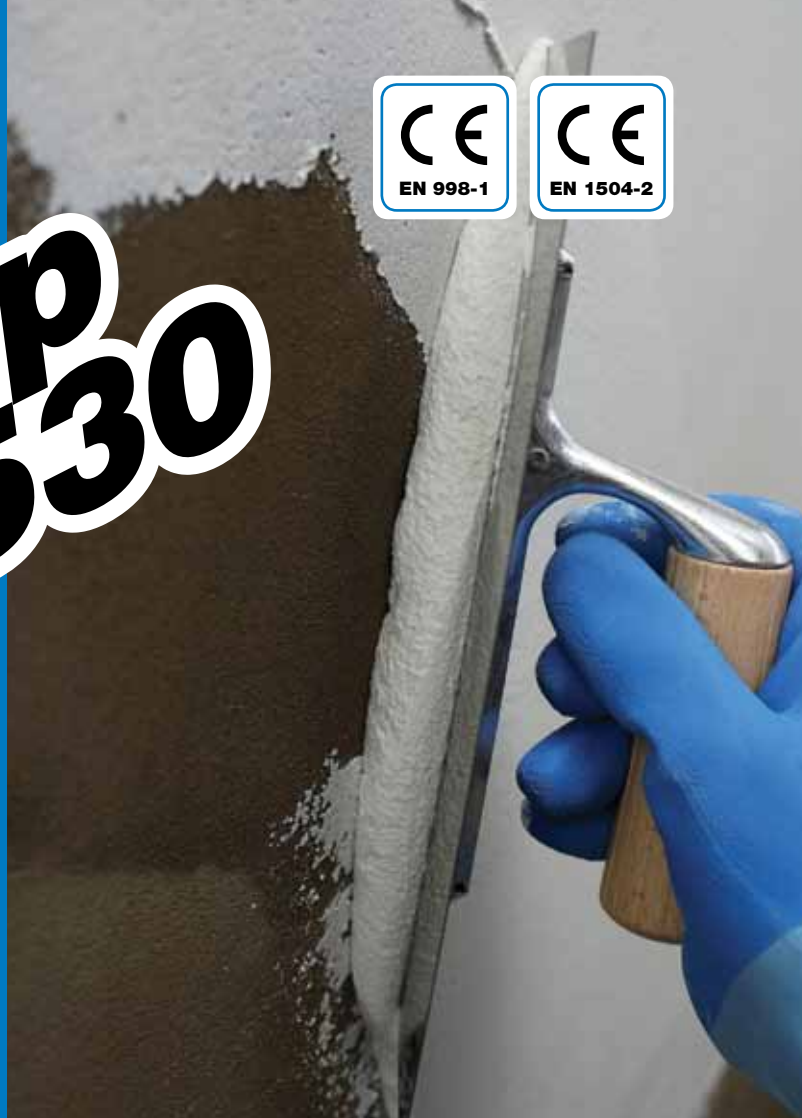


Planitop 530

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



WHERE TO USE

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

Some application examples

- Natural finishes on lime-mortar and pre-blended “fresh” and hardened renders on internal and external surfaces, before painting or applying coloured finishing products.
- Natural finishes on lime-mortar and pre-blended “fresh” and hardened renders on walls and ceilings.
- Skimming slightly uneven concrete walls prior to painting.

TECHNICAL CHARACTERISTICS

Planitop 530 is a single component with fine grain size, pre-blended, normal-hardening smoothing product in powder form available in grey and white, made from aerated and hydraulic binders, limestone and selected quartz sand and special powder admixtures, according to a formula developed in MAPEI’s own research laboratories.

The smoothing compound obtained by mixing **Planitop 530** with water has a high bond strength and is characterised by its excellent free-flowing properties, which make it easy to apply with a metal trowel, and where required, quick to finish off using a sponge float. **Planitop 530** may be applied at a thickness of up to

3 mm. Because of its smooth finish, **Planitop 530** offers a better surface for applying coloured smoothing compounds, 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 530**.

Planitop 530 conforms to the principles defined in 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 purpose mortar for internal/external render*”), category CS IV according to EN 998-1.

RECOMMENDATIONS

- Do not apply **Planitop 530** as a smoothing coat thicker than 3 mm.
- Do not apply **Planitop 530** if the temperature is lower than +5°C or higher than +35°C.

- Do not add cement, lime, admixtures or aggregates to **Planitop 530**.
- Do not apply **Planitop 530** on painted surfaces.
- Do not apply **Planitop 530** on plastic coating (use **Planitop 200**, **Planitop 207** or **Planitop 210**).
- Do not use **Planitop 530** to smooth over cementitious substrates or ceramic or wooden floors.
- Do not apply **Planitop 530** on gypsum-based render unless it has been treated with **Primer G** beforehand.
- Do not apply **Planitop 530** on dirty or crumbly surfaces.
- Do not use **Planitop 530** if there are strong winds or on surfaces under direct sunlight.
- Do not apply **Planitop 530** on de-humidifying renders (use a skimming product from the **Mape-Antique** range or a coloured finishing product from the **Silexcolor** or **Silancolor** range).

APPLICATION PROCEDURE

Preparation of the substrate

Surfaces must be perfectly clean and sound. If the substrate is dirty, thoroughly clean the entire surface to be treated with water to remove all traces of dust which would otherwise stop the product from bonding correctly. Before applying **Planitop 530**, completely remove the surface film of water. If the substrate is powdery after cleaning, which indicates a lack of surface cohesion, apply a primer from the MAPEI range (please contact the Technical Services Department).

Preparation of the smoothing compound

Pour 6-6.8 litres of water into a suitable clean container and slowly add the content of a 25 kg bag of **Planitop 530** 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 too much air entraining into the mix. In order to allow the admixtures 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 smoothing compound

Spread the smoothing compound on the surface using a smooth metallic trowel, at a thickness of up to 3 mm. Absorbent substrates must be dampened with water before applying

the product. The surface of **Planitop 530** may be finished off using the same trowel a few minutes after application, or with a sponge 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 protective surface, we recommend applying a finishing product from the **Silexcolor**, **Silancolor**, **Quarzolite**, **Elastocolor**, **Colorite** or **Dursilite** range. 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 the mortar must be removed mechanically.

COLOUR

Grey or white.

CONSUMPTION

Approx. 1.25 kg/m² 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 530 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.

PRODUCT FOR PROFESSIONAL USE.

Planitop 530: civil finish lime and cement-based compound for smoothing and levelling internal and external render in compliance with EN 1504-2 EN 998-1 standards

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

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

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

Colour of mix:	grey or white
Mixing ratio:	100 parts of Planitop 530 with 24-27 parts of water (approximately 6.0-6.8 litres of water per 25 kg bag of product)
Consistency of mix:	thixotropic-trowellable
Density of the mix (EN 1015-6) (kg/m ³):	1,600
Application temperature range:	from +5°C to +35°C
Pot life of mix (EN 1015-9):	approx. 1 hour
Maximum applicable thickness per layer (mm):	3
Waiting time before finishing with float:	30 minutes
Minimum waiting time before painting with coloured finishing products from the Silexcolor, Silancolor, Elastocolor, Quarzolite, Colorite or Dursilite ranges:	28 days

FINAL PERFORMANCE (26% mixing water)

Performance characteristic	Test method	Requirements according to EN 1504-2 coating (C) principles MC and IR	Performance of product
Compressive strength (MPa):	EN 12190	not required	> 6 (after 28 days)
Bond strength on concrete (substrate in MC 0.40) according to EN 1766 (MPa):	EN 1542	For rigid systems with no traffic: ≥ 1.0 with traffic ≥ 2.0	> 1 (after 28 days)
Impermeability expressed as coefficient of permeability to free water (kg/m ² ·h ^{0.5}):	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 _D - (m):	EN ISO 7783/1	Class I S _D < 5 m Class II 5 m ≤ S _D ≤ 50 m Class III S _D > 50 m	S _D < 0.5 Class I (permeability to water vapour)
Performance characteristic	Test method	Requirements according to EN 998-1	Performance of product
Compressive strength after 28 days (MPa):	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) (MPa):	EN 1015-12	declared value and failure mode (FP)	≥ 0.7 Failure mode (FP) = B
Capillary action water absorption [kg/(m ² ·min ^{0.5}):	EN 1015-18	W 0 (not specified) W 1 (≤ 0.40) W 2 (≤ 0.20)	Category W 0
Coefficient of permeability to water vapour (μ):	EN 1015-19	declared value	< 18
Thermal conductivity (λ _{10,dry}) (W/m·K):	EN 1745	chart value	0.42 (P = 50%)
Reaction to fire:	EN 13501-1	Euroclass	A1

Planitop 530



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

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



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