



Planitop 580

White lime and gypsum-based levelling compound for smoothing dry, cured gypsum, anhydrite or lime/cement-based internal renders



WHERE TO USE

Smoothing traditional and pre-blended renders before decorating with paint and thin layers of mineral or synthetic dressing materials.

Some application examples

- Smoothing lime, gypsum and cement-based internal renders which are sufficiently dry and cured.
- Finishing traditional or pre-blended renders.
- Smoothing gypsum surfaces, light weight concrete blocks or gypsum blocks.
- Compound for touching up rendered walls with small, irregular areas after the removal of old paint, wallpaper or textile wall coverings.
- Smoothing renders where wallpaper or light fabric dressings are to be applied.
- Smoothing coat applied on large-grained levelling compound.

TECHNICAL CHARACTERISTICS

Planitop 580 is a white, one-component, pre-blended, normal-setting smoothing compound made up of hydrated lime, gypsum, ultra-fine marble powder, rheologic additives and powdered synthetic polymers according to a formula developed in MAPEI's own Research Laboratories.

When **Planitop 580** is mixed with water, its special composition and remarkable fineness result in a product with high bonding characteristics and which flows smoothly when spread on the surface with a smooth, metal trowel.

Planitop 580 may be applied at a thickness of up to 3 mm for each coat on well-cured renders.

RECOMMENDATIONS

- Do not use **Planitop 580** for outdoor applications.
- Do not apply **Planitop 580** on damp renders or on renders subject to capillary-action rising damp.
- Do not apply on de-humidifying renders (use **Mape-Antique FC** finishing compound or a coloured finishing compound from the **Silexcolor** or **Silancolor** ranges of products).
- Do not apply **Planitop 580** on painted surfaces.
- Do not apply **Planitop 580** if the temperature is lower than 5°C or higher than +35°C.
- Do not apply **Planitop 580** on plastic coatings materials (use **Planitop 200**).
- On "fresh" cement-based renders, use **Planitop 520**.
- Do not add cement, lime, additives or aggregates to **Planitop 580**.

- Do not use **Planitop 580** for smoothing horizontal surfaces.

APPLICATION PROCEDURE

Preparation of the substrate

The surfaces to be treated must be clean, sound and free of humidity and dust. We recommend that the surface to be treated is well prepared by removing old paint, traces of wax and loose or irregular parts which could impede the product from bonding to the surface.

If irregularities of more than 3 mm need to be levelled off, apply several coats of **Planitop 580**.

Preparation of the product

Pour 9 litres of water into a clean, suitable container. Slowly add the contents of one 15 kg bag of **Planitop 580** while stirring with a mechanical mixer. Mix well for a few minutes, making sure that no traces of powder remain stuck to the sides or to the bottom of the container.

Keep mixing until a perfectly homogenous mix is obtained (no lumps should be present). Use a low-speed mechanical mixer for this operation to avoid too much air entering the mix.

In order to allow the additives to carry out their function correctly, we recommend that the blend is left standing for approximately 3 minutes and then mixed again for a short time before it is applied. Do not prepare the mix by hand. Apply **Planitop 580** within 50 minutes of it being mixed.

Application of the product

Spread the product on the surface with a flat, metal trowel in horizontal and vertical strokes. If further coats are required, they must be applied before the first coat is completely dry. Smooth off the surface up to a maximum thickness of 3 mm, making sure that the substrate is completely covered.

To give the product a mirror finish, pass a wet, metal trowel repeatedly over the surface once it has dried.

Special care must be taken around corners and edges. We recommend adding a larger amount of the product in these areas, and then shaping them with suitable tools.

Painting or the application of dressing materials and/or tapestries must only be carried out once the product is completely cured.

Precautions to be taken during and after application

If the temperature is around +20°C, no particular precautions need to be taken.

Planitop 580 must be protected from frost and from drying too quickly. Therefore, +5°C

is the minimum recommended temperature for applying the product. If the temperature is lower, the product may not set correctly.

Cleaning

We recommend cleaning all work tools with water before the product sets.

Once **Planitop 580** has set, tools may only be cleaned mechanically.

CONSUMPTION

approx. 0.80 kg/m² (per mm thickness).

PACKAGING

15 kg bags.

STORAGE

Planitop 580 may be stored for 12 months when contained in its original unopened packaging in a dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Planitop 580 is irritant, and may cause serious damage if it comes into contact with the eyes.

While handling the product, protect the face and eyes and wear protective gloves. If the product comes into contact with the skin or eyes, wash immediately with plenty of water and, if necessary, seek medical attention. For further information, please refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

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

TECHNICAL DATA (typical values)	
PRODUCT DETAILS	
Consistency:	powder
Colour:	white
Bulk density (kg/m³):	1,350
Maximum diam. of aggregate (µm):	< 100
Storage:	12 months in original packaging in a dry place
Hazard classification according to directive CE 1999/45:	irritant. Before using refer to the "Safety instructions for the 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:	white
Mixing ratio:	15 kg sack with 9 l of water
Density of the mix (kg/m³):	1,260
pH of mix:	> 12
Pot life:	approx. 50 min.
Recommended application temperature range:	from +5°C to +35°C
Maximum applicable thickness (mm):	3
Waiting time between first and second coat:	90 min.
Waiting time before sanding:	3-7 days (after drying)
Waiting time before painting:	28 days
FINAL PERFORMANCES	
Vapour permeability (m):	40
Bonding strength (N/mm²): – after 28 days (23°C and 50% R.H.):	> 0.5
Compressive strength (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.):	> 1.4

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