

# PLANITOP FAST 330

Quick-setting, fibre-reinforced cementitious mortar for internal and external floors and walls, applied at a thickness from 3 to 30 mm to smooth out irregularities



## WHERE TO USE

To smooth irregular internal and external substrates to quickly make them suitable for laying ceramic and stone or for waterproofing with liquid membrane or flexible cementitious systems. Applied at a thickness from 3 to 30 mm.

### Some application examples

- Levelling reinforced concrete surfaces in swimming pools to make them ready to receive (after just 24 hours at +20°C) **Mapelastic**, **Mapelastic Smart**, **Monolastic** and **Monolastic Ultra** waterproofing systems or, after 4 hours at +20°C, for directly laying all types of ceramics and mosaics.
- Smoothing and levelling clean internal and external substrates made from products normally used in the building industry, such as floor slabs and screeds made using cement or special binders (such as **Topcem**, **Topcem Pronto**, **Mapecem** and **Mapecem Pronto**) and old ceramic and stone floors in order to quickly prepare them for laying (after just 4 hours at +20°C), ceramic and stone materials which are not sensitive to damp, or for applying waterproofing systems such as **Mapelastic**, **Mapelastic Smart**, **Monolastic**, **Monolastic Ultra**, **Mapegum WPS** (after just 24 hours at +20°C).
- Repairing or forming slopes on terraces and balconies.

## TECHNICAL CHARACTERISTICS

**Planitop Fast 330** is a grey-coloured one-component cementitious mortar with very low emission of volatile organic compounds (EMICODE ECI) made using special cementitious binders, selected aggregates materials, synthetic resins and special additives according to a formula developed in MAPEI's Research & Development laboratories.

When mixed with water, it forms a blend with good workability which may be applied on vertical surfaces by trowel, characterised by its high bonding strength to all substrates normally used in the building industry.

**Planitop Fast 330** hardens quickly even when applied in thick layers without shrinking or cracking, and forms a strong layer suitable for laying ceramic, glass mosaic and stone coatings.

**Planitop Fast 330** meets the main requirement 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 purpose mortar for internal/external render"), category CS IV according to EN 998-1.

## RECOMMENDATIONS

- Do not mix **Planitop Fast 330** with cement or other products and never add water to the mix once it has started to set.
- Protect the surface to avoid the water evaporating too quickly in hot and/or windy weather.

- After applying **Planitop Fast 330**, protect the surface from water for at least 4 hours at +20°C and 24 hours at +5°C, and in all cases, until it has hardened.
- Apply at a temperature between +5°C and +35°C.
- Do not leave bags of **Planitop Fast 330** exposed to the sun for long periods before use.
- Do not use this product on flexible, deformable substrates such as wood and wood conglomerates, metal, rubber, PVC and linoleum.

## APPLICATION PROCEDURE

### Preparation of the substrate

The substrate must be cured, compact and free of dust, loose parts, oil, grease and traces of paint and adhesive.

Surfaces exposed to direct sunlight or winds must be wetted beforehand.

Particularly absorbent substrates (such as bricks, lightweight concrete blocks, etc.) must be wetted before applying **Planitop Fast 330**, especially when applied in thin layers.

Gypsum substrates and anhydrite screeds must be perfectly dry, hard enough for the final intended use and free of dust. They must also be treated with **Primer G** or **Eco Prim T Plus**.

Concrete surfaces must be well cured, clean, free of dust and cement laitance and, where necessary, treated with **Eco Prim Grip Plus**.

Smooth substrates and substrates with low or no absorbency, such as ceramics, terrazzo or concrete with a finish of smoothing and levelling compound, must be cleaned, mechanically abraded and treated with **Eco Prim Grip Plus**.

### Preparation of the mix

Pour a 25 kg bag of **Planitop Fast 330** into a container with 4.5-5 litres of clean water while mixing (18-20 parts of water per 100 parts in weight of **Planitop Fast 330**) and mix with a low-speed mixer to form a smooth, lump-free blend. The blend remains workable for approximately 20 minutes (at +20°C).

### Application of the mix

On walls:

Apply a feather edge layer of **Planitop Fast 330** on the substrate to form a perfectly buttered layer and then immediately apply the product at the thickness required to level and even out the substrate in a single layer (up to a maximum of 3 cm).

If thick layers are required, **Planitop Fast 330** may be applied with a smooth trowel by pressing it down well onto the substrate and then levelling off with a metal straight edge (final finishing with a sponge float).

On floors:

Apply the mix with a long metal pallet knife or trowel.

### Laying coating materials or waterproofing layers

Waterproofing layers of **Mapelastic**, **Mapelastic Smart**, **Monolastic**, **Monolastic Ultra** and **Mapegum WPS** may be applied after approximately 24 hours at +20°C. Ceramic tiles, stone (not sensitive to moisture) and all types of mosaic may be laid after approximately 4 hours at +20°C and after 24 hours at +5°C.

### Curing

Protect the surface against water evaporating too quickly during hot and/or windy weather and avoid the mortar coming into contact with water for the first 4 hours at +20°C and for the first 24 hours at +5°C.

## CLEANING

Tools and containers may be cleaned using water while **Planitop Fast 330** is still fresh.

## CONSUMPTION

Approx. 1.55 kg/m<sup>2</sup> per mm of thickness (1 cm thick: 15.5 kg/m<sup>2</sup>).

## PACKAGING

25 kg bags.

## STORAGE

**Planitop Fast 330** may be stored up to 12 months in its original packaging.

The special packaging, made from 25 kg vacuum-packed polyethylene bags, allows the product to be stored outside for the entire duration of the site. Rain has no effect on its characteristics.

# SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website [www.mapei.com](http://www.mapei.com).

PRODUCT FOR PROFESSIONAL USE.

**Planitop Fast 330: Quick-setting cementitious mortar for internal and external use applied at a thickness from 3 to 30 mm to smooth out irregularities in floors and walls, in compliance with the requirements defined by EN 1504-2 and EN 998-1**

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	powder
Colour:	grey
Maximum size of aggregate (mm):	1
Bulk density (kg/m <sup>3</sup> ):	1,300
Dry solids content (%):	100
EMICODE:	EC1 - very low emission

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

Colour of mix:	grey
Mixing ratio:	100 parts of <b>Planitop Fast 300</b> with 18-20 parts of water (4.5-5 litres of water per 25 kg bag)
Density of the mix EN 1015-6 (kg/m <sup>3</sup> ):	1,850
Maximum applied thickness (mm):	30
Application temperature range:	from +5°C to +35°C
Minimum waiting time before laying ceramic coating:	4 hours at +20°C 24 hours at +5°C

### FINAL PERFORMANCE (19% mixing water - mixing according EN 196-1)

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	> 20 (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	≥ 2.0 (after 28 days)
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 Class II 5 m ≤ S <sub>D</sub> ≤ 50 m Class I S <sub>D</sub> > 50 m	Class I (S <sub>D</sub> < 5 m)

Performance characteristic	Test method	Requirements according to EN 998-1 type GP-CS IV	Performance of product
Compressive strength 28 days (MPa):	EN 1015-11	CS I (0.4 to 2.5) CS II (1.5 to 5) CS III (3.5 to 7.5) CS IV ( $\geq 6$ )	$\geq 20$ (category CS IV)
Adhesion to the substrate (MPa):	EN 1015-12	Declared value and failure pattern (FP)	$\geq 1.5$ failure pattern (FP) = B
Capillary absorption [ $\text{kg}/(\text{m}^2 \cdot \text{min}^{0.5})$ ]:	EN 1015-18	W <sub>C</sub> 0 (not specified) W <sub>C</sub> 1 ( $\leq 0.40$ ) W <sub>C</sub> 2 ( $\leq 0.20$ )	Category W <sub>C</sub> 2
Water vapour permeability coefficient ( $\mu$ ):	EN 1015-19	Declared value	$\leq 80$
Thermal conductivity ( $\lambda_{10,\text{dry}}$ ) (W/m·K):	EN 1745	chart value	0.67 (P = 50%)
Reaction to fire:	EN 13501-1	Euroclass	A1/A1 <sub>FL</sub>

\* Product curing (for requirements according to EN 1504-2) according to PCC (Appendix A - EN 12190).

## 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)

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