



Planipatch

Smooth, ultra fast setting thixotropic finishing mortar for horizontal or vertical surfaces (thickness 0 to 10 mm)



WHERE TO USE

For the repairing, levelling-off and smoothing up to a feather edge of interior floors, walls, steps and corners where quick hardening and drying, together with a particularly smooth final surface, are required.

Some application examples

- Smoothing concrete slabs, **Mapcem**, **Mapecem Pronto**, **Topcem**, **Topcem Pronto** and anhydrite-based screeds, heated floors, magnesium and cast asphalt.
- Smoothing terrazzo, ceramic and natural stone.
- Smoothing concrete walls and cement renders.
- Repairing or levelling steps, landings and the edges of columns.

By adding **Latex Plus** to **Planipatch**, excellent bonding strength to metal surfaces, old rubber floors, PVC, chipboard, parquet, linoleum and similar materials is achieved.

TECHNICAL CHARACTERISTICS

Planipatch is a grey-coloured powder, made up of special cement binders, selected graded aggregates and synthetic additives blended together according to a formula developed in MAPEI's own research laboratories.

When **Planipatch** is mixed with water, it becomes a thixotropic paste which may be easily applied, has high bonding strength with the substrate and dries so quickly that successive painting or the laying of flooring or ceramic coverings may be carried out after only 4 to 6 hours of it being applied.

Planipatch hardens without shrinking and without forming cracks, and reaches high compressive and flexural strength and a high level of resistance to impact and abrasion. The final finish of surfaces in **Planipatch** is extremely smooth and fine, which makes it particularly suitable for the laying of all types of soft-flooring and coverings.

Planipatch may also be used for smoothing-off up to a feather edge.

RECOMMENDATIONS

- When mixing, do not use more than the recommended amount of water, and do not add more water once the mix has started to set.
- Do not add lime, cement or plaster to the mix.
- Do not use for external purposes.
- Do not use on substrates subject to continuous rising damp.

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Smoothing an existing wall covering with Planipatch



Mixing Planipatch with Latex Plus for smoothing difficult and deformable substrates



Planipatch mixed with Latex Plus for smoothing over metal

- Do not use at temperatures lower than +5°C.
- Protect it from evaporating too quickly in hot and/or windy weather.
- Do not leave bags of **Planipatch** exposed to direct sunlight or direct heat prior to it being used.
- Do not apply layers less than 3 mm thick of **Planipatch** if parquet is to be installed.
- If the thickness of the layer is more than 10 mm, use **Nivorapid**.
- For smoothing-off or for spot-grouting wooden substrates, use **Planipatch** mixed with **Latex Plus** instead of water.

APPLICATION PROCEDURE

Preparation of the substrate

The substrate must be solid, dry, free of dust, loose or flaky material, paint, wax, oil, rust and traces of plaster.

Cement-based surfaces which are not solid enough must either be removed or, where possible, consolidated with **Prosfas**, **Primer EP** or **Primer MF**.

Dusty or highly-porous concrete surfaces must be treated by applying a coat of diluted **Primer G** (1 kg of **Primer G** diluted with 1 to 3 kg of water) or **Livigum** (1 kg of **Livigum** diluted with 5 kg of water) in order to fix the dust and provide uniform absorbency in the substrate.

Anhydrite screeds may only be levelled-off with **Planipatch** if they have been previously sanded and treated with a coat of **Primer G** or **Primer EP**.

On existing ceramic or natural stone surfaces, apply a coat of **Mapeprim SP**, **Mapeprim 1K** or **Primer G** diluted with water at a ratio of 1:2-1:3 after cleaning it with a suitable detergent followed by mechanical abrasion. Carry out smoothing operations before the **Mapeprim SP** or **Mapeprim 1K** completely sets (when touch-tested, a fingerprint mark is left).

Preparation of the mix

Pour the contents of one 25 kg bag of **Planipatch** into 6.5 litres of clean water while stirring, and continue stirring with a low-speed mixer until a smooth, homogenous, lump-free paste is obtained.

The quantity of **Planipatch** mixed in each batch must be used within 10 minutes (at a temperature of +23°C).

Application of the mix

Apply the mix with a long, metal trowel. If

necessary, several coats may be applied one after the other (wait approximately 40 to 50 minutes between each coat, according to the temperature). Surfaces smoothed off with **Planipatch** are ready for successive applications after only 4 to 6 hours of it being laid.

Cleaning

Planipatch may be rinsed off from hands and tools with water if it has not yet set.

CONSUMPTION

The consumption of **Planipatch** is 1.5 kg/m² per mm of thickness.

PACKAGING

Planipatch is available in 25 kg bags.

STORAGE

When stored in a dry place, **Planipatch** remains stable for at least 12 months. Prolonged storage of **Planipatch** may, over a length of time, lengthen its setting time, but has no effect on its final characteristics.

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

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

The product contains cement which, in contact with perspiration or other bodily fluids, produces an irritating, alkaline reaction. Use gloves and protective goggles. For further information, please refer to the safety data sheet which is available upon request.

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 IDENTITY

Consistency:	fine powder
Colour:	grey
Density (kg/m³):	1,150
Dry solids content (%):	100
Storage:	12 months in the original packaging in a dry place
Hazard classification according to EC 1999/45:	none. 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

COMPOSITION AND PROPERTIES OF THE MIXTURE (T = +23°C, R.H. = 50%)

Mixing ratio:	25-27 parts water per 100 parts Planipatch
Thixotropic properties:	yes
Density of the mix (kg/m³):	1,850
pH of the mix:	approx. 12
Application temperature range:	from +5°C to +30°C
Pot life:	approx. 10 minutes
Setting time:	approx. 25 minutes
Set to light foot traffic:	approx. 2 hours
Waiting time before subsequent bonding:	4 to 6 hours

FINAL PERFORMANCES

Compressive strength (N/mm²): - after 6 hours: - after 1 day: - after 3 days: - after 7 days: - after 28 days:	 20 25 30 34 39
Flexural strength (N/mm²): - after 6 hours: - after 1 day: - after 3 days: - after 7 days: - after 28 days:	 3.5 4 6 7 9
Brinell hardness (N/mm²): - after 6 hours: - after 1 day: - after 3 days: - after 7 days: - after 28 days:	 71 94 95 97 98

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