PLANIPATCH

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





EN 13813 · CT C35-F7 A1fl · GEV-EMICODE EC 1 PLUS very low emission

WHERE TO USE

For the repairing, levelling 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 admixtures 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 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.
- 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.

MAPEI

- 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

Substrates must comply with the specifications contained in the locally applicable standards.
Substrates must be sound and free of all traces of dust, loose or detached parts, varnish, wax, oil, rust and gypsum.
Cementitious-based surfaces that are not sufficiently sound must be removed or, where possible, consolidated with a suitable MAPEI system (such as **Prosfas**, **Eco Prim PU 1K** or **Primer MF**).
Repair any cracks present in the substrate with **Eporip** or **Eporip SCR**.
Treat dusty or particularly porous concrete surfaces with a suitable primer such as **Primer G** diluted 1:1 with water or **Eco Prim T Plus** diluted with up to 1:4 with water to hold the dust and even out the absorbency of the substrate.
Anhydrite screeds may be levelled off with **Planipatch** only after having sanded the surface and applying a suitable primer such as **Primer G** neat or **Eco Prim T Plus** diluted up to 1:2 with water
Prime existing ceramic and natural stone surfaces with a coat of **Eco Prim T Plus** or **Eco Prim Grip** after cleaning the surface with a suitable detergent and, if required, abrading the surface mechanically.

Preparation of the mix

Pour the contents of one 25 kg bag of **Planipatch** into 5.5 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 approximately 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.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

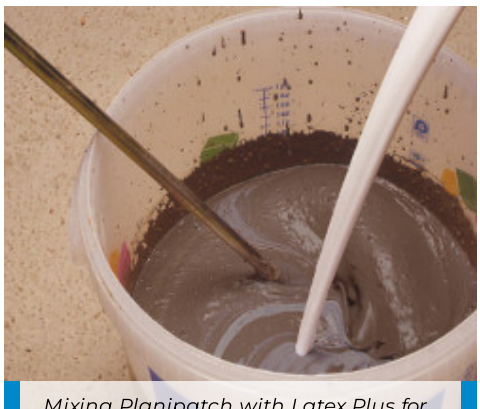
PRODUCT IDENTITY	
Consistency:	fine powder
Colour:	grey
Density (kg/m³):	1,150
Dry solids content (%):	100
– EMICODE:	EC1 Plus - very low emission

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	22 parts water per 100 parts **Planipatch**
Thixotropic properties:	yes
Density of the mix (kg/m³):	1,900
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:	after 4-6 hours

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



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

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

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The most up-to-date TDS can be downloaded from our website www.mapei.com.
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