



# 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 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.

# Planipatch

- 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 **Profas**, **Primer MF**, **Eco Prim PU 1K**, etc.

Immediately after applying one of the aforementioned treatments, sprinkle dry crushed sand or **Quartz 1.2** on the surface.

Repair cracks in the substrate with **Eporip** or **Eporip Turbo**.

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.

Level anhydrite screeds with **Planipatch** after treating the surface with a coat of suitable primer (such as **Primer G** or **Eco Prim T** diluted 1:1 with water).

Prime existing ceramic and natural stone substrates with a coat of **Eco Prim T** after mechanically abrading and cleaning the surface with a suitable detergent. Leave the primer to dry for 2-5 hours, according to the surrounding temperature and level of humidity, and then spread on a layer of levelling mortar. Never wait more than 24 hours.

### 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/m<sup>2</sup> 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. The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

## SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

**Planipatch** is irritant, contains cement which, in contact with perspiration or other bodily fluids, produces an irritating, alkaline reaction and may cause sensitisation in those subject allergic to such products. Use gloves and protective goggles.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

## 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)



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



"Der Blaue Engel" is a German mark of ecological quality used to identify products which respect the environment, contractors and end users. MAPEI products carrying this logo have been tested according to strict criteria defined by the German standard RAL-UZ 113 and, because they are all solvent-free with very low emission of volatile organic compounds, also offer advantages for the environment and public wellbeing.



**Our Commitment To The Environment**  
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

|                               |                              |
|-------------------------------|------------------------------|
| Consistency:                  | fine powder                  |
| Colour:                       | grey                         |
| Density (kg/m <sup>3</sup> ): | 1,150                        |
| Dry solids content (%):       | 100                          |
| EMICODE:                      | EC1 Plus - very low emission |

### APPLICATION DATA OF THE PRODUCT (at +23°C - 50% R.H.)

|  |  |
|--|--|
| Mixing ratio:                            | 22 parts water per 100 parts <b>Planipatch</b> |
| Thixotropic properties:                  | yes  |
| Density of the mix (kg/m <sup>3</sup> ): | 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 PERFORMANCES

|  |     |
|--|-----|
| Compressive strength (N/mm <sup>2</sup> ): |     |
| - after 6 hours:                           | 20  |
| - after 1 day:                             | 25  |
| - after 3 days:                            | 30  |
| - after 7 days:                            | 34  |
| - after 28 days:                           | 39  |
| Flexural strength (N/mm <sup>2</sup> ):    |     |
| - after 6 hours:                           | 3.5 |
| - after 1 day:                             | 4   |
| - after 3 days:                            | 6   |
| - after 7 days:                            | 7   |
| - after 28 days:                           | 9   |
| Brinell hardness (N/mm <sup>2</sup> ):     |     |
| - after 6 hours:                           | 71  |
| - after 1 day:                             | 94  |
| - after 3 days:                            | 95  |
| - after 7 days:                            | 97  |
| - after 28 days:                           | 98  |



**Planipatch**



**BUILDING THE FUTURE**

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