

# PLANIPATCH XTRA

Fine-grained, ultra-fast drying thixotropic cementitious patching compound for local repairing



[www.blauer-engel.de/uz113](http://www.blauer-engel.de/uz113)



## CLASSIFICATION ACCORDING TO EN 13813

**Planipatch Xtra**, used as smoothing compound as described in this Technical Data Sheet, is classified as CT-C35-F7-A1<sub>FL</sub> according to European standard EN 13813.

## WHERE TO USE

**Planipatch Xtra** can be used for the local repairing and skim coating, even down to a “feather-edge”, of interior floors, walls, steps and corners where quick hardening and drying, together with a particular smooth final surface, are required.

Suitable for surfaces in residential, commercial and industrial areas.

### Some application examples

Suitable for:

- skim coating unfinished, rough-textured substrates, even down to a “feather-edge”;
- filling voids, holes and cracks in the substrates (provided they are stable);
- fast edging or local repairing before final smoothing with suitable self-levelling compounds;
- patching and local repairing of stairs, landings and edges of columns.

Suitable on:

- concrete floor slabs, cement-based screeds, and screeds made using **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**;
- anhydrite and magnesium-based screeds;
- heated floors;
- ceramic and terrazzo tiles;
- stone floors;
- concrete walls and cement renders;
- old substrates with strongly bonded residues of waterproof adhesives or smoothing compounds.

When mixed with **Latex Plus**, **Planipatch Xtra** can be used for feathering or patching properly prepared metal and wood surfaces, old substrates with residues of paints, resin and bitumen-based adhesives, fully adhered resilient and wood flooring.

**Planipatch Xtra + Latex Plus** can also be used as a primer and bonding agent before the application of levelling compounds onto impervious substrates.

## TECHNICAL CHARACTERISTICS

**Planipatch Xtra** is a grey-coloured powder made from special cement binders, selected graded aggregates and synthetic additives according to a formula developed in MAPEI Research & Development Laboratories.

When mixed with water, **Planipatch Xtra** forms a thixotropic mortar with good workability and high bonding strength with the substrate. Thanks to the very fine texture, it can be applied down to a “feather-edge” in order to obtain an even and closed surface. The special binders allow to model and smooth the patching compound quickly, in order to obtain the required surface.

When used **as a patching compound or for local repairing**, **Planipatch Xtra** can be used from “feather-edge” to high thickness. In this case, for thickness higher than 25 mm, adding 30% in weight of 0.1-0.5 mm quartz sand is recommended. In normal conditions, the final smoothing with suitable self-levelling compounds and the installation of all kinds of floorings can be carried out after 45-60 minutes.

When used **for levelling and smoothing large areas**, the allowed maximum thickness is 10 mm. In this case, the surface is ready for installing any kind of coverings or to be painted after 4-6 hours. **Planipatch Xtra** hardens without shrinking or cracking and reaches a very high level of mechanical strength and resistance to impact and abrasion.

Substrates skimmed or smoothed over with **Planipatch Xtra** have a very smooth, fine-textured finish, particularly suitable for resilient floor coverings.

**Planipatch Xtra** provides the lowest possible level of emissions since it's certified EMICODE EC1 Plus (very low emission) from GEV and marked with the “Blauer Engel” according to DE-UZ 113.

## RECOMMENDATIONS

- Do not mix the product with more than the recommended amount of water and do not add water once it has started to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use on exterior surfaces.
- Do not use on substrates subject to continuous rising damp.
- Do not use at temperatures lower than +5°C.
- Protect surface in hot and/or windy weather to prevent the water from evaporating off too quickly.
- Do not leave bags of **Planipatch Xtra** exposed to direct sunlight or near sources of heat prior to it being used.
- In the case of **Planipatch Xtra** is used for levelling and smoothing large areas, the minimum thickness has to be at least 3 mm when bonding parquet.
- Do not use as a final wear surface.

## APPLICATION PROCEDURE

### Preparation of the substrate

The substrate must be dry, sound, clean, and free of dust, loose or detached material, paint, wax, oil, varnish, rust and gypsum.

Cement-based substrates which are not sound enough must either be removed or, where possible, consolidated with **Profas**, **Primer MF**, **Eco Prim PU 1K**, etc. Concrete or cement-based substrates with high residual moisture have to be treated with **Primer MF**, **Eco Prim PU 1K** or other suitable primers from MAPEI range.

Dusty or highly-porous cementitious substrates must be treated by applying a coat of **Primer G** (diluted 1:1 with water) or **Eco Prim T Plus** (diluted up to 1:4 with water) or other suitable primers from MAPEI range. Repair not-stable cracks in the substrate with **Eporip** or **Eporip SCR**. Anhydrite screeds may only be levelled-off and repaired with **Planipatch Xtra** after applying a coat of **Primer G** (undiluted) or **Eco Prim T Plus** (diluted up to 1:2 with water) or other suitable primers from MAPEI range.

Thoroughly clean existing ceramic or stone tiles, resilient flooring, resin-based and metallic surfaces, with a suitable detergent and/or by abrading the surface with a suitable power tool.

**Planipatch Xtra** mixed with **Latex Plus** (pure or diluted 1:1 with water) can be used for skimming or patching over particularly deformable substrates (such as metal and wood surfaces) resilient and wood flooring (as long

as fully bonded to the substrates), old resin substrates and substrates with residues of bitumen and reactive-based adhesives.

### Preparation of the mix

Pour a 23 kg bag of **Planipatch Xtra** into a container with ca. 6.5-6.7 litres of clean water while stirring, and continue stirring with a low-speed mixer until a smooth, homogeneous, lump-free paste is obtained. The amount of **Planipatch Xtra** mixed in each batch must be applied within 10 minutes (at a temperature of +23°C).

### Application of the mix

Apply the mix with a long-bladed metal smoothing 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).

When **Planipatch Xtra** is used for skimming "feather-edge", as a patching compound or for local repairing, the surface is ready for the final smoothing with suitable self-levelling compounds or the application of all kinds of flooring after 45-60 minutes.

When **Planipatch Xtra** is used for levelling and smoothing large areas in thickness from 3 to 10 mm, the surface is ready for installing any kind of coverings after 4-6 hours.



Filling a cable run with **Planipatch Xtra**



Application of **Planipatch Xtra + Latex Plus** on wooden substrate

## CLEANING

Clean **Planipatch Xtra** from tools with water while still wet.

## CONSUMPTION

The consumption of **Planipatch Xtra** is 1.4 kg/m<sup>2</sup> per mm of thickness.

## PACKAGING

**Planipatch Xtra** is available in 23 and 5 kg bags.

## STORAGE

**Planipatch Xtra** remains stable for at least 12 months if stored in a dry place.

If stored for longer periods, **Planipatch Xtra** may take longer to set without altering 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 Safety Data Sheet, available from our website [www.mapei.com](http://www.mapei.com).

PRODUCT FOR PROFESSIONAL USE.

Keep out of the reach of children.

Keep children away from fresh adhesive or installation material.

Ensure good ventilation during and after use and drying.

Do not eat, drink or smoke when using this product.

In case of contact with skin or eyes, rinse immediately with plenty of water.

Do not allow product to reach sewage system, water course or soil.

Clean tools with soap and water immediately after use.

Give only empty containers to recycling.

Dried product residues may be disposed of as domestic waste if allowed by local regulations.

Product preservative-free.

For information for allergic people or the Technical Data Sheet, please call: +39/02/37673.1.

*The product contains:*

Binders, Mineral fillers (Vdl-RL 01/June 2018).

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

<b>Consistency:</b>	fine powder
<b>Colour:</b>	grey
<b>Density:</b>	1150 kg/m <sup>3</sup>
<b>Dry solids content:</b>	100%
<b>EMICODE:</b>	EC1 Plus - very low emission
<b>BLAUER ENGEL:</b>	DE-UZ 113

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

<b>Mixing ratio:</b>	28-29% parts water per 100 parts of Planipatch Xtra
<b>Density of the mix:</b>	1900 kg/m <sup>3</sup>
<b>pH of the mix:</b>	approx. 12
<b>Application temperature range:</b>	from +5°C to +30°C
<b>Pot life:</b>	approx. 10 minutes
<b>Setting time:</b>	approx. 20 minutes
<b>Set to light foot traffic:</b>	approx. 60 minutes
<b>Waiting time before the final smoothing or the gluing of all kinds of floorings:</b>	
-when used for skimming "feather-edge", as patching compound or for local repairing	45-60 minutes
-when used for levelling and smoothing large areas in thickness from 3 to 10 mm	4 to 6 hours

### FINAL PERFORMANCE

<b>Compressive strength:</b>	
after 60 minutes:	8 N/mm <sup>2</sup>
after 4-6 hours:	20 N/mm <sup>2</sup>
after 1 day:	25 N/mm <sup>2</sup>
after 3 days:	30 N/mm <sup>2</sup>
after 7 days:	34 N/mm <sup>2</sup>
after 28 days:	39 N/mm <sup>2</sup>
<b>Flexural strength:</b>	
after 60 minutes:	1.5 N/mm <sup>2</sup>
after 4-6 hours:	2.5 N/mm <sup>2</sup>
after 1 day:	3 N/mm <sup>2</sup>
after 3 days:	6 N/mm <sup>2</sup>
after 7 days:	7 N/mm <sup>2</sup>
after 28 days:	8 N/mm <sup>2</sup>
<b>Brinell hardness:</b>	
after 4-6 hours:	71 N/mm <sup>2</sup>
after 1 day:	94 N/mm <sup>2</sup>

after 3 days:  
after 7 days:  
after 28 days:

95 N/mm<sup>2</sup>  
97 N/mm<sup>2</sup>  
98 N/mm<sup>2</sup>

## 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)**

## LEGAL NOTICE

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