



# Latex Plus

**Latex admixture  
imparting elasticity  
and enhanced  
adhesion to  
Keraquick, Planipatch  
and Nivorapid**



## WHERE TO USE

- As an admixture for **Keraquick** to obtain a high performance, fast setting and slip resistant (class C2FT according to EN 12004), highly deformable (class S2 according to EN 12002) adhesive for ceramic tiles and stone material.
- As an admixture for **Nivorapid** and **Planipatch** to obtain an ultra-fast cementitious levelling compound with improved deformability and bonding strength.

## TECHNICAL CHARACTERISTICS

**Latex Plus** is a water dispersion of an extremely flexible polymer with low viscosity to be mixed with **Keraquick**, **Nivorapid** and **Planipatch** in order to improve their deformability improving their application and performance characteristics.

## RECOMMENDATIONS

- **Keraquick**, **Nivorapid** and **Planipatch** mixed with **Latex Plus** should never be applied at temperatures below +5°C or above +30°C.
- Do not use more than the recommended amount of **Latex Plus**.
- Do not add **Latex Plus** or water to a mix that has already begun to set.
- Do not leave **Latex Plus**, **Nivorapid**, **Planipatch** and **Keraquick** exposed to direct sunlight for long periods of time before using.

## APPLICATIONS

### A) **Latex Plus + Keraquick**

Fast setting adhesive with high deformability and no vertical slip for interior and exterior installations of ceramic tiles and stone material.

### B) **Latex Plus + Nivorapid or Planipatch**

Fast setting levelling compound with high deformability for interior surfaces.

## A) **LATEX PLUS + KERAQUICK** WHERE TO USE

Interior and exterior installations of ceramic tiles (double-fired, single-fired, grès, clinker, terracotta, vitreous mosaic, porcelain, etc.), including large format, and moisture-stable natural stones not subject to staining on:

- underfloor heating installations;
- façades, balconies, terraces;
- precast concrete walls;
- existing floors (ceramic tiles, marble, etc.);
- cement screeds or hot-poured asphalt substrates (provided they are stable and well oxidized);
- deformable surfaces (gypsum board panels, asbestos cement, etc.).

## APPLICATION PROCEDURE

### Preparing the substrate

Substrates must be flat, mechanically strong, free of loose debris, grease, oil, paint, wax etc. and sufficiently dry. Damp substrates could slow the setting of **Keraquick + Latex Plus**.

Cementitious substrates must not continue to shrink once the tiles have been installed, therefore renders should be cured at least 2 weeks. Cementitious screeds must have an overall cure of at least 3-4 weeks unless they have been made with the special MAPEI binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**.

Surfaces that are too hot due to exposure to direct sunlight should be dampened with water.

Gypsum substrates and anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), sufficiently hard and free from dust. They must be treated with **Primer G** or **Mapeprim SP**. Areas subject to extreme damp must be primed with **Primer S**.

# Latex Plus



Grouting of plywood substrate with Nivorapid + Latex Plus



An example of an installation of a granite floor and wall with Keraquick + Latex Plus - Caesaris Palace in Merseyside - Liverpool (GB)

## Mixing ratios

Mix **Keraquick** with **Latex Plus** only, without adding water, when maximum deformability is required, e.g. for tiling directly over poured concrete with at least 3 months curing in favourable atmospheric conditions, for large size ceramic tiles (> 30x30 cm), or installations subject to wide temperature fluctuation.

6 kg of **Latex Plus** for each 20 kg bag of **Keraquick Grey**;

6 kg of **Latex Plus** for each 20 kg bag of **Keraquick White**.

## Preparing the mix

Pour the powder into the liquid, mixing with an agitator at low speed until a homogenous, lump-free paste is obtained. Let the mix stand for a few minutes, then mix again briefly, and apply.

## Applying the mix

Spread the mix on the substrate with a notched trowel and set the tiles quickly, pressing firmly to ensure transfer of the adhesive. Always be careful to stay within the open time of the adhesive. In certain ambient conditions (high temperatures, dry, windy weather) the open time may be shorter than usual.

**N.B.** For exterior installation of large size tiles, floors to be polished *in situ*, or those subject to heavy traffic, back-buttering is recommended to ensure total transfer of the adhesive without voids.

## GROUTING AND SEALING

Joints can be grouted after 2-3 hours with the special MAPEI cementitious or epoxy grouts, available in different colours.

## LIGHT FOOT TRAFFIC

Floors are able to take light foot traffic after 2-3 hours.

## READY FOR USE

Surfaces are ready for use after 24 hours. Basins and

swimming pools can be filled after 3 days.

## CONSUMPTION

|                               | Latex Plus                | Keraquick               |
|-------------------------------|---------------------------|-------------------------|
| Mosaics and small-sized tiles | 0.7 kg/m <sup>2</sup>     | 2 kg/m <sup>2</sup>     |
| Normal-sized tiles            | 0.8-0.9 kg/m <sup>2</sup> | 2.5-3 kg/m <sup>2</sup> |
| Large-sized tiles             | 1.3 kg/m <sup>2</sup>     | 4 kg/m <sup>2</sup>     |

## B) LATEX PLUS + NIVORAPID OR PLANIPATCH WHERE TO USE

- Levelling of wood flooring, chipboard, and plywood.
- Levelling of sheet metal, PVC, rubber, linoleum, strong non-woven flooring, and ceramic tile.
- Levelling walls and floors on all substrates normally used in construction, provided they are not subject to moisture.
- Levelling of flexible and deformable substrates varying in thickness from 3 to 20 mm (**Nivorapid+Latex Plus**) or from 0 to

10 mm (**Planipatch+Latex Plus**), to ready them to receive ceramic, resilient or textile flooring.

## RECOMMENDATIONS

- Do not use in exteriors.
- Do not use on substrates subject to rising damp.
- Do not use directly on anhydrite surfaces (treat first with **Primer G**, **Mapeprim SP** or **Primer EP**).
- Do not use **Nivorapid** or **Planipatch** mixed with **Latex Plus** as a levelling compound underneath parquet or glued wood flooring.
- When used for resilients, watch out for shadowing. If possible, use **Latex Plus** diluted with water.

## APPLICATION PROCEDURE

### Preparing the substrate

Substrates must be sound, free of dust, loose particles, paint, wax, oil, rust and gypsum residue.

**Nivorapid** or **Planipatch + Latex Plus** forms a levelling compound with excellent adhesion to metal surfaces, existing rubber floors, PVC, strong non-woven flooring, chipboard, parquet, linoleum or similar materials. These surfaces must be clean and sanded before levelling with **Nivorapid** or **Planipatch + Latex Plus**. Before applying, make sure that existing flooring is well fastened to the support.

**Nivorapid + Latex Plus** and **Planipatch + Latex Plus** can be applied in thicknesses from 3 to 20 mm (**Nivorapid + Latex Plus**) and from 0 to 10 mm (**Planipatch + Latex Plus**), even in a single coat, without cracking or crazing.

Once they have hardened they are highly flexible with excellent adhesion to all supports, without needing the application of a primer, except in the cases mentioned above.

### Preparing the mix

**Nivorapid** or **Planipatch** should be mixed only with **Latex Plus**, without adding water, when maximum deformability is required and for applications over difficult surfaces. Pour approx. 9 kg of **Latex Plus** into a clean receptacle and add a 25 kg bag of **Nivorapid**, preferably mixing with an agitator (at low speed) until a homogeneous, lump-free paste is obtained. When using **Planipatch** the amount of **Latex Plus** to be used varies from 8 to 10.5 kg of **Latex Plus** for each 25 kg bag of **Planipatch**. Mix only enough **Nivorapid** or **Planipatch + Latex Plus** at a time that can be used within 10-15 minutes at +23°C.

### Applying the mix

Apply **Nivorapid** or **Planipatch + Latex Plus** with a metal trowel. When needed, several coats may be applied in rapid succession as soon as each coat has hardened (after about 50 to 60 minutes, depending on temperature and on the absorbency of the substrate). Flooring can be bonded to **Nivorapid** or **Planipatch + Latex Plus** levelling compound 12-24 hours after application, depending on the thickness, ambient temperature and humidity.

## CONSUMPTION

### Nivorapid + Latex Plus

**Nivorapid**: 1.3-1.5 kg/m<sup>2</sup> per mm of thickness.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTIFICATION

|   |   |
|---|---|
| <b>Consistency:</b>                                 | liquid  |
| <b>Colour:</b>                                      | white   |
| <b>Density (g/cm<sup>3</sup>):</b>                  | 1.04  |
| <b>pH:</b>  | 7   |
| <b>Dry solid content (%):</b>                       | 34  |
| <b>Brookfield viscosity (mPa·s):</b>                | 20  |
| <b>Storage:</b>                                     | 24 months in original sealed packing.<br>Protect from frost and direct sunlight   |
| <b>Hazard classification according to 99/45 CE:</b> | none.<br>Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet |
| <b>Customs class:</b>                               | 3906 90 00  |

### TECHNICAL DATA FOR KERAQUICK + LATEX PLUS

In compliance with:

- European EN 12004 as C2FT
- European EN 12002 as S2
- DIN 18156 - Part 2
- American ANSI A 118.4 - 1999
- Canadian 71 GP 30 M type 2

### APPLICATION DATA at +23°C and 50% R.H.

|   |   |  |
|---|---|--|
| <b>Mixing ratio:</b>                      | <b>Keraquick Grey</b><br>6 kg <b>Latex Plus</b><br>for each 20 kg bag | <b>Keraquick White</b><br>6 kg <b>Latex Plus</b><br>for each 20 kg bag |
| <b>Consistency of the mix:</b>            | creamy paste  | creamy paste   |
| <b>Colour:</b>                            | grey  | white  |
| <b>Density of mix (kg/m<sup>3</sup>):</b> | 1550  | 1550   |
| <b>pH of the mix:</b>                     | approx. 11  |  |
| <b>Pot life:</b>                          | 30 minutes  |  |
| <b>Application temperature range:</b>     | from +5°C to +30°C  |  |
| <b>Open time (according to EN1346):</b>   | 10-15 minutes   |  |
| <b>Ready for grouting:</b>                | 2-3 hours   |  |
| <b>Set to light foot traffic:</b>         | 2-3 hours   |  |
| <b>Ready for use:</b>                     | 24 hours (3 days for basins and swimming pools)                       |  |

### FINAL PERFORMANCE DATA

|   |                                |
|---|--------------------------------|
| <b>Tensile adhesion strength (N/mm<sup>2</sup>)</b><br>- initial (after 28 days at +23°C and 50% R.H.)<br>- after ageing with heat:<br>- after immersion in water:<br>- after freeze/thaw cycles: | 2.5<br>2.8<br>1.3<br>1.4       |
| <b>Resistance to acids:</b>   | fair                           |
| <b>Resistance to alkali:</b>  | excellent                      |
| <b>Resistance to oils:</b>  | excellent                      |
| <b>Resistance to solvents:</b>  | excellent                      |
| <b>Temperature when in use:</b>   | from -30°C to +90°C            |
| <b>Deformability according to EN 12002:</b>   | > 5 mm - S2, highly deformable |

**Latex Plus:** 0.3-0.5 kg/m<sup>2</sup> per mm of thickness.

#### **Planipatch + Latex Plus**

**Planipatch:** 1.3-1.4 kg/m<sup>2</sup> per mm of thickness.

**Latex Plus:** 0.45-0.55 kg/m<sup>2</sup> per mm of thickness.

#### **Cleaning**

Tools can be cleaned with plenty of water before the adhesive hardens. Afterwards cleaning is very difficult. Solvents, like mineral spirits, may be helpful.

#### **PACKAGING**

**Latex Plus** is available in 1.5, 3 and 6 kg drums.

#### **STORAGE**

Stored normally, in original sealed packaging, **Latex Plus** is stable for 24 months. Protect from frost.

#### **SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION**

**Latex Plus** is not considered as hazardous according the ruling norms on the classification of these mixtures. It is however recommended to take the usual necessary precautions for handling chemical products.

# Latex Plus



| TECHNICAL DATA FOR NIVORAPID + LATEX PLUS and PLANIPATCH + LATEX PLUS |  |                      |            |                       |
|---|--|----------------------|------------|-----------------------|
| APPLICATION DATA at +23°C and 50% R.H.                                |  | Nivorapid+Latex Plus |            | Planipatch+Latex Plus |
| <b>Consistency:</b>   |  | creamy paste         |            | creamy paste          |
| <b>Colour:</b>  |  | dark grey            |            | dark grey             |
| <b>Density of mix (kg/m³):</b>  |  | 1800                 |            | 1800                  |
| <b>pH of the mix:</b>   |  | 12                   |            | 12                    |
| <b>Minimum application temperature:</b>                               |  | +5°C                 |            | +5°C                  |
| <b>Open time:</b>   |  | 20 minutes           |            | 20 minutes            |
| <b>Setting time:</b>  |  | 30 minutes           |            | 30 minutes            |
| <b>Set to light foot traffic:</b>                                     |  | 2 hours              |            | 2 hours               |
| <b>Waiting time before bonding flooring:</b>                          |  | 12-24 hours          |            | 12-24 hours           |
| FINAL PERFORMANCE DATA  |  | Nivorapid+Latex Plus |            | Planipatch+Latex Plus |
| <b>Compressive strength (N/mm²):</b>                                  |  | <b>23%</b>           | <b>36%</b> | <b>33%</b> <b>42%</b> |
| - after 1 day   |  | 8                    | 16         | 11   8                |
| - after 7 days  |  | 14                   | 21         | 14   11               |
| - after 28 days   |  | 20                   | 25         | 15   17               |
| <b>Flexural strength (N/mm²):</b>                                     |  |                      |            |                       |
| - after 1 day   |  | 6                    | 7          | 5   4                 |
| - after 7 days  |  | 7                    | 9          | 8   7                 |
| - after 28 days   |  | 10                   | 11         | 10   10               |

The Safety Data Sheet is available upon request for professional users.

FOR PROFESSIONALS.

### WARNING

Although the technical details and recommendations contained in this report 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 applications; 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.

**All relevant references of the product are available upon request**



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