

# LATEX PLUS

Latex admixture imparting elasticity and enhanced adhesion to Keraquick S1 Zero and Planipatch Xtra



## WHERE TO USE

- As an admixture for **Keraquick S1 Zero** to obtain a high performance, fast setting, slip resistant and highly deformable adhesive (class C2FT S2 according to EN12004), for ceramic tiles and stone material.

## TECHNICAL CHARACTERISTICS

**Latex Plus** is a water dispersion of an extremely flexible polymer with low viscosity to be mixed with **Keraquick S1 Zero** or **Planipatch Xtra** in order to improve their deformability improving their application and performance characteristics.

## RECOMMENDATIONS

- **Keraquick S1 Zero** or **Planipatch Xtra** 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**, **Planipatch Xtra** and **Keraquick S1 Zero** exposed to direct sunlight for long periods of time before using.

## APPLICATIONS

### A) *Latex Plus + Keraquick S1 Zero*

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

### B) *Latex Plus + Planipatch Xtra*

Smooth feathering and patching compound with improved deformability and bonding strength for interior surfaces.

## A) LATEX PLUS + Keraquick S1 Zero

### 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:

## Some application examples

- underfloor heated 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 S1 Zero + 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 **Eco Prim T Plus**.

### Mixing ratios

Mix **Keraquick S1 Zero** 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 S1 Zero**.

### Preparing the mix

Pour the **Latex Plus** in to a clean mixing bucket and slowly add the powder, while mechanically mixing with a suitable mixing paddle 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 the installation of wall tiles larger than 300 x 300mm, tiling in wet areas and floor tiling, 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 S1 Zero

|                               |   |
|-------------------------------|---|
| 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 + Planipatch Xtra

### 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 (**Planipatch Xtra+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, Eco Prim T Plus**)
- Do not use **Planipatch Xtra** 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.

**Planipatch Xtra + 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 **Planipatch Xtra + Latex Plus**. Before applying, make sure that existing flooring is well fastened to the support. **Planipatch Xtra + Latex Plus** can be applied in thicknesses from 3 to 20 mm (**Planipatch Xtra + Latex Plus**), 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

**Planipatch Xtra** should be mixed only with **Latex Plus**, without adding water, when maximum deformability is required and for applications over difficult surfaces.

Pour approx. 1.2 - 1.8 kg of **Latex Plus** into a clean container and add 5 kg of **Planipatch Xtra**, preferably mixing with an agitator (at low speed) until a homogeneous, lump-free paste is obtained. Mix only enough **Planipatch Xtra + Latex Plus** at a time that can be used within 10-15 minutes at +23°C.

### Applying the mix

Apply **Planipatch Xtra + 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 **Planipatch Xtra + Latex Plus** levelling compound 12-24 hours after application, depending on the thickness, ambient temperature and humidity.

## CONSUMPTION

### Planipatch Xtra + Latex Plus

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

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

## CLEANING

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 kg, 3 kg and 6 kg drums.

## STORAGE

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

## 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.co.uk](http://www.mapei.co.uk).

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

|                               |        |
|-------------------------------|--------|
| Consistency:                  | liquid |
| Colour:                       | white  |
| Density (g/cm <sup>3</sup> ): | 1.04   |
| pH:                           | 7      |
| Dry solids content (%):       | 34     |
| Brookfield viscosity (mPa·s): | 20     |

### TECHNICAL DATA FOR Keraquick S1 Zero + LATEX PLUS

In compliance with: – European EN 12004 as C2FT S2 – DIN 18156 - Part 2

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

|                                      |  |
|--------------------------------------|--|
| Mixing ratio:                        | 6 kg <b>Latex Plus</b> for each 20 kg <b>Keraquick S1 Zero</b> |
| Consistency of the mix:              | creamy paste   |
| Colour:                              | grey & white   |
| Density of mix (kg/m <sup>3</sup> ): | 1550   |
| pH of the mix:                       | approx. 11   |
| Pot life:                            | 30 minutes   |
| Application temperature range:       | from +5°C to +30°C   |
| Open time (according to EN 1346):    | 10-15 minutes  |
| Ready for grouting:                  | 2-3 hours  |
| Set to light foot traffic:           | 2-3 hours  |
| Ready for use:                       | 24 hours (3 days for basins and swimming pools)                |

### FINAL PERFORMANCE DATA

|   |     |
|---|-----|
| Tensile adhesion strength (N/mm <sup>2</sup> )  |     |
| – initial (after 28 days at +23°C and 50% R.H.) | 2.5 |
| – after ageing with heat:                       | 2.8 |
| – after immersion in water:                     | 1.3 |
| – after freeze/thaw cycles:                     | 1.4 |

|                                      |                                |
|--------------------------------------|--------------------------------|
| Resistance to acids:                 | fair                           |
| Resistance to alkalis:               | excellent                      |
| Resistance to oils:                  | excellent                      |
| Resistance to solvents:              | excellent                      |
| Temperature when in use:             | from -30°C to +90°C            |
| Deformability according to EN 12004: | > 5 mm - S2, highly deformable |

#### TECHNICAL DATA for Planipatch Xtra+LATEX PLUS

|                                       |              |
|---------------------------------------|--------------|
| Consistency:                          | creamy paste |
| Colour:                               | dark grey    |
| Density of mix (g/cm <sup>3</sup> ):  | 1800         |
| pH of the mix:                        | 12           |
| Minimum application temperature:      | +5°C         |
| Open time:                            | 20 minutes   |
| Setting time:                         | 30 minutes   |
| Set to light foot traffic:            | 2 hours      |
| Waiting time before bonding flooring: | 12-24 hours  |

| FINAL PERFORMANCE DATA                     | Planipatch Xtra+Latex Plus |            |
|--|----------------------------|------------|
| Compressive strength (N/mm <sup>2</sup> ): | <b>23%</b>                 | <b>36%</b> |
| – after 1 day                              | 8                          | 16         |
| – after 7 days                             | 14                         | 21         |
| – after 28 days                            | 20                         | 25         |
| Flexural strength (N/mm <sup>2</sup> ):    |                            |            |
| – after 1 day                              | 6                          | 7          |
| – after 7 days                             | 7                          | 9          |
| – after 28 days                            | 10                         | 11         |

## N.B.

*Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.*

*No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.*

*End users should ensure that our latest product data and safety information sheets have been consulted prior to use.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.co.uk](http://www.mapei.co.uk)**

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*The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.*

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