



Latex Plus

**Latex admixture
imparting elasticity
and enhanced
adhesion to
Keraquick S1 and
Nivorapid**



WHERE TO USE

- As an admixture for **Keraquick S1** 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.
- As an admixture for **Nivorapid** 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 S1** or **Nivorapid** in order to improve their deformability improving their application and performance characteristics.

RECOMMENDATIONS

- **Keraquick S1** or **Nivorapid** 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** and **Keraquick S1** exposed to direct sunlight for long periods of time before using.

APPLICATIONS

A) **Latex Plus + Keraquick S1**

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**

Fast setting levelling compound with high deformability for interior surfaces.

A) **LATEX PLUS + Keraquick S1**

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 S1 + 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 **Mapcem**, **Mapcem 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**.

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Grouting of plywood substrate with Nivorapid + Latex Plus



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

Mixing ratios

Mix **Keraquick S1** 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** Grey;

6 kg of **Latex Plus** for each 20 kg bag of **Keraquick S1** 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 S1	
Mosaics and small-sized tiles	0.7 kg/m ²	2 kg/m ²
Normal-sized tiles	0.8-0.9 kg/m ²	2.5-3 kg/m ²
Large-sized tiles	1.3 kg/m ²	4 kg/m ²

B) LATEX PLUS + NIVORAPID 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**), 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**).
- Do not use **Nivorapid** mixed with **Latex Plus** as a levelling compound underneath parquet or glued wood flooring.
- When used for resilient, 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 + 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 + Latex Plus**.

Before applying, make sure that existing flooring is well fastened to the support.

Nivorapid + Latex Plus can be applied in thicknesses from 3 to 20 mm (**Nivorapid + 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

Nivorapid 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. Mix only enough **Nivorapid + Latex Plus** at a time that can be used within 10-15 minutes at +23°C.

Applying the mix

Apply **Nivorapid + 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 + 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/m² per mm of thickness.
Latex Plus: 0.3-0.5 kg/m² per mm of thickness.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

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

TECHNICAL DATA FOR Keraquick S1 + 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:	Keraquick S1 grey 6 kg Latex Plus for each 20 kg bag	Keraquick S1 white 6 kg Latex Plus for each 20 kg bag
Consistency of the mix:	creamy paste	creamy paste
Colour:	grey	white
Density of mix (kg/m ³):	1550	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 ²) – initial (after 28 days at +23°C and 50% R.H.): – after ageing with heat: – after immersion in water: – after freeze/thaw cycles:	2.5 2.8 1.3 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

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TECHNICAL DATA FOR NIVORAPID+LATEX PLUS

APPLICATION DATA at +23°C - 50% U.R.

	Nivorapid+Latex Plus
Consistency:	creamy paste
Colour:	dark grey
Density of mix (g/cm ³):	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

	Nivorapid+Latex Plus	
Compressive strength (N/mm ²):	23%	36%
- after 1 day	8	16
- after 7 days	14	21
- after 28 days	20	25
Flexural strength (N/mm ²):		
- after 1 day	6	7
- after 7 days	7	9
- after 28 days	10	11

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 THE PREPARATION AND APPLICATION

Latex Plus is not considered as dangerous according to the current regulation regarding the classification of mixtures. We recommend to wear protective gloves and goggles and to take the usual precautions for the handling of chemicals.

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.

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

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