



Latex Plus

Latex admixture imparting elasticity to Keraquick, Planipatch and Nivorapid



WHERE TO USE

- As an admixture for **Keraquick** to obtain a high performance, fast setting and no vertical slip (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 without otherwise changing 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 all types of ceramic tiles (double-fired, single-fired, grès, clinker, terracotta, vitreous mosaic, porcelain, etc.), including large sizes, 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 substrates

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

Cementitious substrates

Cementitious substrates must not be subject to shrinkage once the tiles have been installed, therefore in warm weather renders should be cured at least 1 week per centimetre of thickness. Cementitious screeds must have an overall cure of at least 28 days unless they have been made with the special MAPEI binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**.

Cool surfaces that are too hot due to exposure to direct sunlight by dampening them 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

Latex Plus

treated with **Primer G** or **Mapeprim SP**. Areas subject to extreme damp must be primed with **Primer S**.

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 (> 30 x 30 cm), or installations subject to wide ranges of temperature.

8 to 8.5 kg of **Latex Plus** for each 25 kg bag of **Keraquick** grey;

7.5 to 8 kg of **Latex Plus** for each 23 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 sit 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 installations 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.

SET TO LIGHT FOOT TRAFFIC

Floors are set to 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 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 OR PLANIPATCH WHERE TO USE

- Levelling of wood plank-on-edge flooring, chipboard, and plywood.
- Levelling of sheet metal, PVC, rubber, linoleum, strong non-woven flooring, and ceramic tile.

- Levelling for walls and floors on all substrates normally used in construction, provided they are not subject to the presence of 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 any type of ceramic, resilient or textile flooring.

RECOMMENDATIONS

- Do not use externally.
- Do not use on substrates subject to rising damp.
- Do not use directly on anhydrite surfaces (treat first with a coat of **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 imprintability. If possible, use **Latex Plus** diluted with water.

APPLICATION PROCEDURE

Preparing the substrate

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

Nivorapid or **Planipatch** + **Latex Plus** form a levelling compound with excellent adhesion on 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 6-9 kg (the exact quantity depending on the type of levelling compound to be made, that is on floor or wall, and on the viscosity desired) 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).



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)

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION

Consistency:	liquid
Colour:	white
Density (g/cm³):	1.04
pH:	7
Dry solid content (%):	34
Brookfield viscosity (mPa·s):	20
Storage:	24 months in original sealed packing. Protect from frost.
Hazard classification according to EC 99/45:	none. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	3906 90 00

TECHNICAL DATA FOR KERAQUICK + LATEX PLUS

In compliance with:	- European EN 12004 as C2FT - European EN 12002 as S2 - American ANSI A 118.4 - 1999 - Canadian 71 GP 30 M type 2
----------------------------	----------------------------------------------------------------------------------------------------------------------------

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

Mixing ratio:	Keraquick grey 8-8.5 kg Latex Plus for each 25 kg bag	Keraquick white 7.5-8 kg Latex Plus for each 23 kg bag
Consistency of the mix:	pasty	pasty
Colour:	grey	white
Density of mix (kg/m³):	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 EN1346):	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 (according to EN 1348) (N/mm²)	
- 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 12002:	> 5 mm - S2, highly deformable

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/m² per mm of thickness.

Latex Plus: 0.3-0.5 kg/m² per mm of thickness.

Planipatch + Latex Plus

Planipatch: 1.3-1.4 kg/m² per mm of thickness.

Latex Plus: 0.45-0.55 kg/m² 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 10 kg drums.

STORAGE

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

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	
Consistency:		pasty		pasty	
Colour:		dark grey		dark grey	
Density of mix (g/cm³):		1800		1800	
pH of the mix:		12		12	
Minimum application temperature:		+5°C		+5°C	
Open time:		20 minutes		20 minutes	
Setting time:		30 minutes		30 minutes	
Set to light foot traffic:		2 hours		2 hours	
Waiting time before bonding flooring:		12-24 hours		12-24 hours	
FINAL PERFORMANCE DATA		Nivorapid+Latex Plus		Planipatch+Latex Plus	
Compressive strength (N/mm²):		23%	36%	33	42
- after 1 day		8	16	11	8
- after 7 days		14	21	14	11
- after 28 days		20	25	15	17
Flexural strength (N/mm²):					
- after 1 day		6	7	5	4
- after 7 days		7	9	8	7
- after 28 days		10	11	10	10

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Latex Plus is not considered as hazardous according to the ruling norms on the classification of these mixtures. It is however recommended to take the usual necessary precautions for handling chemical products. The Safety Data Sheet is available upon request for professional users.

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.

FOR PROFESSIONALS.

WARNING

Although the technical details and recommendations contained in this report correspond to the best of our knowledge and

All relevant references of the product are available upon request



BUILDING THE FUTURE

MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)



MAPEI S.p.A. - ITALY



MAPEI SUISSE SA MAPEI Kft. - HUNGARY MAPEI s.r.o. - CZECH REP. MAPEI CORP - U.S.A. MAPEI INC - CANADA MAPEI FAR EAST Pte Ltd MAPEI ARGENTINA S.A.



MAPEI FRANCE

RESCON MAPEI AS - NORWAY

www.mapei.com