

Nivoplan

**Indoor and outdoor
levelling mortar for
walls and ceilings**



WHERE TO USE

Nivoplan is particularly suitable for rendering and levelling indoor and outdoor wall and ceiling surfaces in layers of thicknesses from 2 to 30 mm.

Nivoplan makes the surfaces suitable for the installation of ceramic tiles or for paint finishing.

Some application examples

- smoothing walls prior to installing the ceramic tiles;
- repairing old, damaged renders;
- levelling reinforced concrete surfaces of swimming pools and façades prior to installing ceramic coverings, waterproofing by painting;
- smoothing foamed cement, brick, eraclit, etc. walls.

TECHNICAL CHARACTERISTICS

Nivoplan is a grey or white powder composed of cement, selected aggregates and special synthetic resins which, mixed with water, provide a mix that is easy to apply on vertical surfaces with a trowel or with a rendering spraying machine.

Nivoplan's bonding properties can be improved by adding **Planicrete** and water to the product during mixing, approximately 2 litres per bag (used as a partial replacement for the mix water).

The addition of **Planicrete** is necessary for thin applications over concrete or in cases where the render will receive tile or natural stone coverings.

PRECAUTIONS

- **Nivoplan** must never be used on gypsum or gypsum-based surfaces, unless those surfaces have been prepared with a coat or two of **Primer G** (see relative data sheet);
- **Nivoplan** is not suitable for levelling floors on account of its limited compressive strength. For floors, use **Pianocem Grosso**, **Planolit**.

APPLICATION PROCEDURE

Preparing the substrate

The substrate must be compact, free of dust, loose parts and clean from oils, grease, paint or glue residues.

Nivoplan can also be applied to damp surfaces without any problem, but cure time will be slightly prolonged.

It is advisable to wet highly absorbent substrates (brick, foamed cement, etc.) before applying **Nivoplan**, especially if the layer is less than 3 mm thick.

Nivoplan cannot be used on gypsum surfaces and the like, unless they are treated beforehand with **Primer G**.

Preparing the mix

Nivoplan should be mixed with clean water and stirred until a smooth, lump-free paste is obtained. It is advisable to use a mechanical stirrer.

Nivoplan



Mixing with a mini cement-mixer



Restoring old brickwork



Levelling with a laying-on trowel

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY:	
Consistency:	powder
Colour:	grey and white
Density (g/cm³):	1.4
Dry solids content or active substance (%):	100
Storage:	12 months in a dry place in original packaging
Hazard classification acc. to EEC 88/379:	none
Customs class:	3824 50 90
APPLICATION DATA at +23°C – 50% R.H.:	
Mix ratio:	22 parts water per 100 parts of Nivoplan by weight
Consistency of mix:	very pasty
Density of mix (g/cm³):	1.83
pH of mix:	approx. 12
Pot life:	2-3 hours
Application temperature range:	from +5°C to +30°C
Thickness possible for one coat:	from 2 to 30 mm
Waiting time before bonding:	4-5 hours
Waiting time before painting:	at least 14 days
FINAL PERFORMANCES:	
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor to vegetable oils)
Resistance to solvents:	excellent
Temperature range when in use:	from –30°C to +90 °C
Compatibility with adhesives:	excellent
Flexural strength:	3.5 N/mm ²
Compressive strength:	6.0 N/mm ²

One 25-kg bag of **Nivoplan** should be mixed with 5-5.5 litres of water or with 3.5 litres of water and 2 litres of **Planicrete**.

The **Nivoplan** mix remains usable for 2 hours after mixing.

Applying the mix

It is invariably advisable to apply a first coat of **Nivoplan** to the substrate so as to ensure perfect coverage and then, without waiting, apply the layer necessary for good levelling, up to a maximum of 3 cm at a time.

Nivoplan should be applied with a rendering machine, with a flat trowel or screed (for thick layers) under firm pressure to make the mix adhere well to the substrate.

It is unadvisable to work in temperatures lower than +5°C. Applied in 1 cm layers, **Nivoplan** is already hard enough for tile-laying after 4-5 hours in normal temperature, humidity and substrate-absorption conditions. The surfaces can be painted over after at least 2 weeks. This time becomes longer in winter and shorter in summer.

When applying on walls directly exposed to the sun or wind, it is advisable to wet the surface of the **Nivoplan** to avoid premature curing.

Cleaning

Tools and hands can be cleaned with large doses of water.

PACKAGING

Nivoplan is supplied in multi-layer-paper bags of 25 kg and should be stored in a dry place, where it will remain

undeteriorated for at least 12 months.

CONSUMPTION

Consumption depends on the thickness of the layer but is 1.4 kg/m² per millimetre of thickness (1 cm of thickness = 14 kg/m²).

SAFETY INSTRUCTIONS FOR THE PREPARATION AND INSTALLATION

Contains cement, that in contact with sweat or other body fluids produces an irritant alkaline reaction. Use protective gloves and goggles. For further information consult the safety data sheet.

FOR PROFESSIONALS.

WARNING

Although the technical details and recommendations contained in this product 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



Spray application of Nivoplan



Screeding

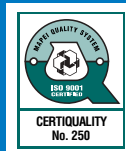


Smoothing with a float



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