NIVOPLAN 350

Dust-reduced rendering mortar for indoor use



DESCRIPTION

Nivoplan 350 is a cementitious levelling mortar for use on walls and ceilings made from concrete, lightweight concrete, ceramic tiles, plaster or gypsum board. The product is for indoor use, for both renovations and new builds.

TECHNICAL CHARACTERISTICS

Nivoplan 350 is a dry mortar consisting of cement, filler and carefully graded aggregates, along with special admixtures developed by Mapei's R&D laboratories. The mortar should only be mixed with water, and is for indoor use.

DIRECTIONS FOR USE

Preparing the substrate

The substrates should be cleaned so that it is free of dust, cement flakes and other contamination that could reduce adhesion. Loose or poor-quality concrete should be removed. Smooth or polished surfaces should be roughened up to ensure maximal adhesion.
Absorbent substrates should be pre-wetted; strongly absorbent substrates should additionally be pre-wetted the day before. Plaster based substrates must be pre-treated with **Primer Eco**.

Preparing the mix

Pour the powder into the correct amount of clean water and mix by machine: approx. 3 minutes in a positive mixer, or about a half to one minute using a drill with a whisk attachment. The amount of water can be adjusted to obtain the desired consistency, but we do not recommend exceeding the specified amount. Do not add extra water once the mortar has started to set.

Applying the mix

The mortar can be applied using normal masonry tools: a smooth steel trowel and float. Thicker layers can be applied with a trowel. The surface should be smoothed with a steel trowel or felt trowel.

Finishing

There is no need for finishing treatment. Rough areas can be rubbed down or scraped away the following day. Thicknesses up to 30 mm will be ready for an impermeable membrane like **Mapeguard WP** system after at least 1 day. Thicker layers need longer waiting time.

CLEANING

Fresh mortar can be removed from tools and equipment with water. Hardened material must be removed mechanically.

CONSUMPTION

1.3 kg per m^2 per mm thickness.

PACKAGING

Nivoplan 350 is supplied in 15 kg bags, 720 kg per pallet.

STORAGE

Nivoplan 350 must be stored in a dry location. It will keep for 12 months from the manufacturing date specified on the packaging, if kept in unopened original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website **www.mapei.no**

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	powder
Colour:	grey
Maximum size of aggregate:	0.4 mm

APPLICATION DATA (at +23°C and 50 % RH)	
Mixing ratio:	100 parts **Nivoplan 350** to 18 - 20 parts water (2.7 - 3.0 litre per 15 kg bag)
Consistency:	thixotropic
Density:	1,520 kg/m^3
pH of the mixture:	approx. 13
Thickness of each coat:	3 - 50 mm
Application temperature range:	+5°C to +30°C
Workability time:	approx. 15 minutes
Waiting time before impermeable coating:	1 - 3 days depending on thickness

FINAL PROPERTIES (20 % water)			
Mechanical property	**Test method**	**Requirements according to EN 998-1**	**Product property**
Consistency class:	EN 1015-11	CS IV	≥ 6 N/mm² (28 days)
Adhesion to substrate:	EN 1015-12	none	0.8 N/mm²
Water absorption:	EN 1015-18	W2	0.12 $kg \cdot m^{-2} \cdot h^{-0.5}$
Thermal conductivity:	EN 1745	none	0.45 $W \cdot m^{-1} \cdot K^{-1}$
Durability:		NPD	
Fire class:	Euroclass	declared by manufacturer	A1

WARNING

Although the technical details and recommendations contained in this product data sheet 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 application: 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.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

LEGAL NOTICE

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 effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

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