



BETON P16

Lime and cement based
render/plaster for spraying



konstruktive • **leidenschaft**



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PRODUCT DESCRIPTION

BETON P16 is a ready to use mineral render/plaster for internal and external application on traditional masonry bricks, blocks or concrete, either new or existing. Application allows protection and levelling of treated supports whilst maintaining masonry breathability. This product is designed to be mechanically sprayed.

COMPOSITION

BETON P16 is a premixed product, which contains hydraulic and air-cured special binders, selected calcareous aggregates and specific additives that improve its workability, breathability and bonding power.

MIXING AND APPLICATION

BETON P16 can be applied by mechanical spraying, using plastering machine for pre-mixed products, or by hand.

The supports to be plastered must be homogeneous, stable, clean, fixed, free of brittle parts, dust, bacterial proliferation, saline efflorescence, oils, grease, wax, residues of previous work, etc. If necessary, clean the support by sandblasting or pressure washing. Smooth, non-absorbent or compact concrete supports must be previously treated with the application of a layer of **BETON RINZAFFO** to improve the adhesion of the render mortar to the lower support. The plaster application should be done 24-48 hours after application of the preparation coat **BETON RINZAFFO**.

If the plaster has to be applied on non homogeneous surfaces, insert within the plaster layer a fibreglass alkali-resistant reinforcement mesh **ARMANET 10X10**. The mesh should be applied to approx. 30 cm beyond the discontinuity of the product and applied within the plaster and not adherent to the wall.

For manual application, mix the product by adding approx. 6.0-6.5 litres of clean water per 25 kg bag in the cement mixer. Put the correct amount of water into the cement mixer, then add the powder. Mix the product for about 2'-3' minutes until the mixture is smooth and free of lumps. Apply the product with a trowel as a traditional render mortar. The mixed product is usable within 90' minutes after mixing with water.

The preparation of corner bead, level guides, etc. should be performed before applying the plaster layer on the wall.

For applications by machine, apply the product evenly in a single layer, with a thickness between 10 and 20 mm. Levelling and finishing the plaster layer with an aluminium screed bar. Any smudges or excess product is to be eliminated by scraping and sanding the supports. The prepared surfaces are then suitable for treating with finishing products.

INDICATIVE AMOUNTS REQUIRED

14 kg per m² per 10 mm of thickness.

COLOUR

Grey.

PACKAGING

25 kg bags on disposable 1575 kg pallet (63 bags) protected by waterproof plastic wrap.

STORAGE

6 months in original intact packaging and stored in a dry place.





RECOMMENDATIONS

Do not apply at temperatures below + 5°C , in the presence of strong wind, rain and under direct sunlight or above + 35°C.
At high temperatures, it is recommended to evenly wet the supports before applying product.
Do not apply on frozen, dusty, uneven and inconsistent supports.
Plaster thickness should be between 10 to 20 mm.
Avoid application on gypsum-based substrates or mineral and organic insulating panels.
Protect the applied product from frost, rain and rapid drying for the first 24 hours after application.

PRODUCT DATA

Appearance	powder	
Colour	grey	
Dry bulk density	~ 1450 kg/m ³	EN 1015-10
Maximum aggregate size	≤ 1.5 mm	

APPLICATION DATA

Water content of mix	24-26%
Mixing ratio	1 bag + 6.0-6.5 ℓ of water
Minimum application temperature	+ 5°C
Maximum application temperature	+ 35°C
Working time	≥ 90' minutes

PERFORMANCE DATA

Bulk density of fresh mortar	~ 1600 kg/m ³	EN 1015-6
Bulk density of hardened mortar	~ 1300 kg/m ³	EN 1015-10
Adhesion	≥ 0.15 N/mm ² (FP) B	EN 1015-12
Compressive strength	≥ 1.5 N/mm ² CS II	EN 1015-11
Flexural strength	≥ 0.8 N/mm ²	EN 1015-11
Capillary water absorption	W0	EN 1015-18
Water vapour permeability coefficient	≤ μ 15	EN 1015-19
Thermal conductivity	0.47 W/mK (tab. mean value; P=50%)	EN 1745, A.12
Specific heat capacity	1.0 kJ/kgK	EN 1745, A.12
Reaction to fire	A1 Class	EN 13501-1
Durability	Evaluation based on provisions valid in the intended place of use of the mortar	EN 998-1
Hazardous substances	See MSDS	EN 998-1

ACCORDING TO



EN 998-1
General purpose rendering/plastering mortar (GP) for internal/external use

REMARKS

Product for professional use. The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site www.vimark.com.

