

# NOVACOL PB



## Adhesive mortar for aerated concrete bricks

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- ▷ **Excellent bonding**
  - ▷ **High mechanical strength**
  - ▷ **Resistant to water and severe weather conditions**
  - ▷ **Suitable for bonding and coating**
  - ▷ **Easy application**
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### Description

NOVACOL PB is a cement-based adhesive mortar for aerated concrete bricks and similar materials. Its special composition allows bonding and coating of the structural elements.

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### Certifications

Meets the requirements claimed by EN 998-2 as cement based mortar for masonry constructions for internal and external areas with Declaration of Performance (DoP) C03933-CPR-1645201.

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### Uses / Advantages

NOVACOL PB is suitable for:

- Bonding and coating of concrete elements from aerated concrete
  
- High adhesive and mechanical strength
- Resistance to moisture and frost
- Internal and external areas

## Technical Data

### Product Identity

Form	Powder
Color	White
Chemical substance	Portland cement, aggregates, special additives
Granulometry	D <sub>max</sub> : 0,6 mm
Bulk density	1,6 ± 0,1 kg/L
Storage	12 months on dry area in the original sealed packaging

### Application data (+23°C & 50% R.H.)

Mixing ratio	5,5 – 6,5 L of water for 25kg
Specific gravity of the mix	1,7 ± 0,05 kg/L
Application temperature	from +5°C up to +35°C
Pot life	> 3 hours

### Final performance according to EN 12004:2007+A1:2012

	Performance	
Compressive strength	≥ 15 N/mm <sup>2</sup>	EN 1015-11
Flexural strength	≥ 4 N/mm <sup>2</sup>	EN 1015-11
Initial shear strength	0,15 N/mm <sup>2</sup>	Tabulated values
Chloride content	≤ 0,02 %	EN 1015-17
Capillary water absorption	0,3 kg/m <sup>2</sup> min <sup>0,5</sup>	EN 1015-18
Water vapour permeability	μ 5/20	Tabulated values
Density of dry mortar	1500 kg/m <sup>3</sup>	EN 1015-10
Thermal conductivity (λ <sub>1,dry</sub> , p=50%)	0,45 W/mK	Tabulated values
Reaction to fire	A1	EN 13501

## Application Procedure

### Substrate Preparation

Cement based substrates have to be free of cracks, compact, clean, free of grease, oil, laitance and any substances which may compromise the adhesion of NOVACOL PB. On hot and/or windy days saturate well the substrate and the bricks with water and remove excess with appropriate tool like sponge.

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### Preparation of the mix

Mix the content of the 25kg paper bag containing NOVACOL PB (25 kg) with 5,5 – 6,5 liters of clean and fresh water by means of appropriate electrical stirrer at low speed for at least 3 – 4 min or construction mixer, until a uniform mortar free of lumps is obtained. The mix has a pot life of 3 hours.

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### Application

NOVACOL PB is applied by means of metallic trowel or other similar appropriate tool, depending on the type of application. The aerated concrete bricks must be compact clean without oil, grease or any substance which may compromise the adhesion of NOVACOL PB on them.

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### Recommendations

Avoid using NOVACOL PB:

- In cases where the substrate and environment temperature are less than +5°C or higher than +35°C
- On surfaces like metal, wood or surfaces like polyurethane, epoxy and similar paint or coatings
- On friable or not properly cured substrates
- Over existing expansion joints

Also note the following:

- Never exceed the maximum recommended quantity of mixing water
- Protect the grouted surface from rain and frost for the first 24 hours
- Do not add cement, lime, gypsum or other binders or substances which may affect the mortar characteristics
- Application should be performed by professional skilled workers

### Consumption

For masonry construction: 5 - 7 kg/m<sup>2</sup>  
As a masonry coating: 1,5 kg/m<sup>2</sup>

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### Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water as long as, NOVACOL PB is still fresh. After hardening occurs, cleaning can take place by mechanical means.

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### Storage

NOVACOL PB remains stable for 12 months from production date inside its original sealed packaging, stored in protected dry area in temperature between +5°C and +35°C.

### Packaging

Multi-layer paper bags of 25 kg in pallets of 1.250 kg.

### Safety Instructions

For further information refer to the Safety Data Sheet of the product

### Warning

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given on their merchantability or suitability for a particular purpose, and no liability whatsoever from any legal relationship can be claimed against the Company on the basis of any written information, written suggestions tips or other forms of instructions provided. For this reason anyone interested of using the product must be sure beforehand that the product 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. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website [www.novamix.gr](http://www.novamix.gr) or directly to the following QR code of the product.



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