

# VINNAPAS® eco 5111 L (XX MB)



## Dispersible Polymer Powders

VINNAPAS® eco 5111 L (XX MB) is a dispersible polymer powder for dry mix mortars, specifically suited for self-leveling flooring compounds and screeds. It is based on a hard copolymer of vinylacetate and ethylene and belongs to the product class VINNAPAS® L which means that it improves the leveling and surface properties as well the stabilization of the fresh mortar. Cured mortars with VINNAPAS® eco 5111 L (XX MB) have improved adhesion, flexural strength, deformability and abrasion resistance.

VINNAPAS® eco is a fossil resources saving product, where a specific share of the fossil-based raw materials required for manufacturing of this product can be replaced by certified sustainable renewable feedstock. The substitution is based on the REDcert<sup>2</sup> mass balance approach, audited by an independent third party.



The exact amount of fossil raw material replaced depends on the selected product version and is specified in the corresponding certificate. Please contact your WACKER representative or visit the product page on the WACKER website [www.wacker.com](http://www.wacker.com) for additional information regarding WACKER's products or sustainability efforts, including mass balance.

## Properties

- VINNAPAS® eco 5111 L (XX MB) is a copolymer powder of vinyl acetate and ethylene and is dispersible in water.
- As a polymeric binder VINNAPAS® eco 5111 L (XX MB) will provide very good workability to the fresh mortar.
- Cured mortars with VINNAPAS® eco 5111 L (XX MB) have improved adhesion, flexural strength, deformability and abrasion resistance.
- VINNAPAS® eco 5111 L (XX MB) is a dispersible hard polymer powder and greatly enhances leveling. It contains a fine mineral filler as an antiblocking agent and is produced without the use of organic solvents, plasticizers and film-forming agents.
- VINNAPAS® eco 5111 L (XX MB) is especially advantageous in combination with synthetic superplasticizers or casein for the production of self-leveling flooring compounds and screeds.
- Special features of VINNAPAS® eco 5111 L (XX MB) are its very good defoaming properties even without additional defoamer in the mortar formulation. This results in exceptionally smooth, uniform surfaces without air bubbles while also offering high abrasion resistance, flexural and compressive strength.
- Furthermore it allows self-leveling flooring compounds to be formulated with a low content of volatile organic compounds (VOC).
- The product thus can be used to produce self-leveling flooring compounds conforming to strict eco-labeling requirements.
- Additionally VINNAPAS® eco 5111 L (XX MB) greatly enhances leveling at low viscosity.

## Specific features

- Defoaming

## Technical data

### Specification

Property	Condition	Value	Method
Ash content	1000 °C	max. 13 %	specific method
Solids content	-	min. 98 %	DIN EN ISO 3251
Bulk density	-	450 - 600 kg/m <sup>3</sup>	DIN EN ISO 60
Particle size	> 400 µm	max. 2 %	DIN EN ISO 4610

### General Characteristics

Property	Condition	Value	Method
Appearance	-	white to light beige powder	Visual
Minimum film forming temperature	-	4 °C	DIN ISO 2115
Protective colloid / emulsifier system	-	polyvinyl alcohol	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Application details

For typical application fields of VINNAPAS® eco 5111 L (XX MB), refer to the section "application". Please discuss additional applications with your WACKER customer representative.

### Processing

For the production of ready-mixed dry mortars, such as adhesives and patching compounds, blend VINNAPAS® eco 5111 L (XX MB) with the other dry ingredients in appropriate equipment. Temperatures should not be allowed to rise excessively during mixing because otherwise the dispersible polymer powder could agglomerate by virtue of its thermoplastic properties. The mortar is prepared for use by adding the recommended amount of water and mixing mechanically or by hand. Since hand mixing generates little shear force, we recommend allowing the fresh mortar to slake for 5 minutes and then stirring it again. This is usually unnecessary where mechanical mixers are employed.

### Additional information

If the product is used in applications other than those mentioned, the choice, processing and use of it is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

Slight color variations of the polymer granulate may occur without impairing the product's functionality.

## Packaging and storage

### Packaging

25 kg paper bags Big Bags or bulk on request.

### Storage

During storage, protect the product from contact with moisture. Prolonged storage at temperatures above 30 °C, especially in combination with pressure, humidity or exposure to sunlight, may result in blocking. Carefully seal any open containers and store them under suitable conditions. We recommend storing the product in a warehouse that provides cool and dry conditions. Do not store the product for more than six months, starting from the date at which it was received, unless the Certificate of Analysis contains a different date, which would take precedence. If the product is stored longer than recommended, it may still be used but users are advised to verify the properties required for the intended use.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. These are available on request from WACKER sales offices or may be downloaded from the WACKER Web site [www.wacker.com/vinnapas](http://www.wacker.com/vinnapas).

## QR Code VINNAPAS® eco 5111 L (XX MB)



### For technical, quality or product safety questions, please contact:

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