

VINNAPAS® 4410 L

Product description

VINNAPAS® 4410 L is a leveling dispersible polymer powder based on vinyl acetate and ethylene with excellent defoaming properties for very smooth, flat surfaces and good stabilization against water over-dosage.

Properties

VINNAPAS® 4410 L is a copolymer powder of vinyl acetate and ethylene and is dispersible in water. As a polymeric binder VINNAPAS® 4410 L will provide very good workability to the fresh mortar; cured mortars with VINNAPAS® 4410 L have improved adhesion, flexibility, flexural strength, deformability and abrasion resistance. VINNAPAS® 4410 L can be combined to improve casein or synthetic plasticizing admixtures to produce self-leveling flooring compounds and screeds. VINNAPAS® 4410 L produces very smooth surfaces that are free of surface voids.

VINNAPAS® 4410 L contains a fine mineral filler as an antiblocking agent and is produced without the addition of organic solvents, plasticizers and film-forming agents.

Special features

VINNAPAS® 4410 L is a hard dispersible polymer powder that greatly enhances leveling in combination with superplasticizers.

Special features of VINNAPAS® 4410 L 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 very low content of volatile organic compounds (VOC). The product thus meets the latest environmental and safety standards and can be used to produce self-leveling flooring compounds conforming to strict eco-labeling requirements, such as EMICODE® EC1+ or Blue Angel.

Application

For typical application fields of VINNAPAS® 4410 L you can refer to the following application table. Please

discuss additional applications with your WACKER customer representative.

Application	Recommendation	Suitability
Self-leveling compounds/screeds	Cement-based	●
	Gypsum-based	●
	Overlayment/wearing surface	●
	Underlayment	●
	Machine application	●
	Manual application	●
● highly recommended ○ recommended		

Processing

For the production of ready-mixed dry mortars, such as adhesives and troweling compounds, blend VINNAPAS® 4410 L 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 and lead to the formation of small lumps of resin.

The mortar or troweling compound is prepared for use by adding the recommended amount of water and mixing by hand or machine. 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.

Storage

VINNAPAS® 4410 L should be stored in a cool place and protected against moisture. Since the product is thermoplastic, it should not be subjected to pressure or high temperatures during storage because of the risk of caking. Storage time should not exceed 6 months from receipt of delivery.

Blends with hydraulic binders, fillers and pigments show better storage stability because these components help to prevent caking. However, blends of this type still have to be protected against moisture.

Packaging

25 kg paper bags.
Big Bags (sizes on request).

Bulk on request.

product's functionality.

Additional information

If VINNAPAS® 4410 L is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® 4410 L is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

Slight discoloration may occur without impairing the

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER sales offices or may be printed via WACKER web site www.wacker.com/vinnapas.

Product data		
Specification data	Inspection Method	Value
Solids content	DIN EN ISO 3251	min. 98 %
Ash Content	specific method	max. 13 %
Bulk density	DIN EN ISO 60	425 - 575 kg/m ³
Typical general characteristics	Inspection Method	Value
Appearance	Visual	white to light beige powder
Protective colloid / emulsifier system	specific method	polyvinyl alcohol
Particle size	DIN EN ISO 4610	max. 2 % over 400 µm
Minimum film forming temperature	DIN ISO 2115	4 °C

Figures below "Typical general characteristics" are intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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