

VINNAPAS® 5410 N



Dispersible Polymer Powders

VINNAPAS® 5410 N is a multi-purpose dispersible polymer powder for dry mix mortars, specifically suited for tile adhesives. It is based on a semi flexible copolymer of vinylacetate and ethylene and belongs to the product class VINNAPAS® N which means that it has a neutral effect on rheology and provides the basic properties flexibility, excellent tensile adhesion and good open time, giving a high degree of formulation freedom. VINNAPAS® 5410 N is part of our standard range, offering you the best-in-class solution for a wide variety of applications.

Properties

- VINNAPAS® 5410 N is a dispersible polymer powder based on vinyl acetate-ethylene.
- VINNAPAS® 5410 N is a polymeric binder and is ideal for modifying cementitious drymix mortars, especially tile adhesives.
- It provides good workability improved adhesion, flexibility, deformability and abrasion resistance.
- VINNAPAS® 5410 N contains a fine mineral filler as an antiblocking agent.
- It is produced without the use of organic solvents, plasticizers and film-forming agents.
- VINNAPAS® 5410 N has no effect on rheological properties and is a polymer powder in the medium Tg range.
- It is suitable for formulating high-quality, low-emissions flexible tile adhesive that feature excellent tensile adhesion strength, especially after immersion in water and heat ageing.

Technical data

Specification

Property	Condition	Value	Method
Bulk density	-	495 - 645 kg/m ³	-
Ash content	-	≥ 36 - ≤ 42 %	specific method
Minimum film forming temperature	-	4 °C	DIN ISO 2115
Particle size	-	max. 4 µm	DIN EN ISO 4610
Particle size (%)	400 µm	max. 4 %	DIN EN ISO 4610
solids content	-	min. 98 %	DIN EN ISO 3251

General Characteristics

Property	Condition	Value	Method
Appearance	-	light beige powder	-
Form	-	powder	-
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.

Store in a dry and cool place.

Protect against moisture.

Applications

- Cementitious Tile Adhesives
- Tile Adhesives and Tile Grouts

Application details

For the production of ready-mixed dry mortars, such as adhesives and patching compounds, blend VINNAPAS® 5410 N 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.

For typical application fields of VINNAPAS® 5410 N, refer to the following application table. Please discuss additional applications with your WACKER customer representative.

If VINNAPAS® 5410 N is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® 5410 N is the sole responsibility of the purchaser. All legal and other regulations must be complied with. Slight color variations of the dispersible polymer powder may occur without impairing the product's functionality.

Packaging and storage

Packaging

VINNAPAS® 5410 N is supplied in 25 Kg bags

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.

QR Code VINNAPAS® 5410 N



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

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