VINNAPAS® 4045 E

VINNAPAS®

Dispersible Polymer Powders

VINNAPAS® 4045 E is renowned for its high flexibility and excellent adhesion.

Properties

- VINNAPAS® 4045 E is a copolymer powder of vinyl acetate and ethylene and is dispersible in water.
- Because of its relatively high ethylene content, this resin is soft and flexible.
- Its glass transition temperature is below the freezing point of water.
- Compounds modified with VINNAPAS® 4045 E exhibit improved adhesion, flexural strength, deformability, abrasion resistance and have better handling properties.
- Leveling, thixotropy and water retention are essentially unaffected.
- The product is ideal for use in combination with other mortar additives intended to enhance specific properties.
- VINNAPAS® 4045 E contains a fine mineral filler as an antiblocking agent. It is produced without the use of organic solvents, plasticizers and film-forming agents.
- VINNAPAS® 4045 E has no effect on rheological properties and is a general-purpose powder in the lower Tg range. It is suitable for formulating highly flexible compounds with very good adhesion to various substrates.

Technical data

Specification

Property	Condition	Value	Method
Bulk density	-	250 - 400 kg/m^3	DIN EN ISO 60
Ash Content	1000 °C	max. 11.2 %	specific method
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	-	white to light beige powder	Visual
Minimum film forming temperature	-	0 °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.

Store in a dry and cool place.

Protect against moisture.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site http://www.wacker.com.

Big Bags or bulk on request.

Applications

- Adhesive & Base-Coat Mortars
- One Component Cementitious Waterproofing Membranes
- Wall and Joint Fillers

Application details

For the production of ready-mixed dry mortars, such as adhesives and patching compounds, blend VINNAPAS® 4045 E 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® 4045 E, refer to the "Application" section. Please discuss additional applications with your WACKER customer representative.

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

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

QR Code VINNAPAS® 4045 E

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

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