VINNAPAS® 4023 N

Product description

VINNAPAS® 4023 N is a copolymer powder of vinyl acetate and ethylene. It is dispersible in water and has good saponification resistance.

Properties

Compounds modified with VINNAPAS® 4023 N exhibit improved adhesion, flexural strength in bending, deformability, abrasion resistance and are easier to process. 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® 4023 N contains a fine mineral filler as an antiblocking agent. It is free of solvents, plasticizers and film-forming agents.

Special features

VINNAPAS® 4023 N has no effect on rheological properties and is a low-emissions, general-purpose powder in the medium Tg range. It is eminently suitable for formulating compounds of high ultimate strength.

Application

Typical applications for VINNAPAS® 4023 N:
not only for blending with inorganic binders, such as cement, anhydrite, gypsum plaster and hydrated lime for the manufacture of tile adhesives, structural adhesives, wall troweling compounds, joint mortars, plasters and repair mortars, but also as the exclusive binder for synthetic-resin-bound systems.

Application	Recommendation	Suitibility
Tile adhesives EN 12004/12002 C1 / C2	Thin-bed mortars, Thin-bed mortars, flexible Flow-bed mortars	●●● ●●● ●●●
Gypsum applications	Self leveling compounds Leveling compounds Jointfiller	●● ●● ●●
Floor/ Wall trowe-ling compounds	Fine leveling compounds Coarse leveling compounds	●● ●●
Tile grout mortars	Indoor Outdoor	●● ●●
Concrete repair mortar	PCC	●●
Plasters /Renders	Basic renders Finishing plasters Gypsum plasters	● ● ●
Self leveling compounds	Cement based Gypsum based	● ●
Wood adhesives	Cement based	●
Powder paints	Cement based Cement free	● ●
EIFS	Adhesive mortars Embedding mortars	● ●

● suitable ●● recommended ●●● highly recommended

Processing

For the production of ready-mixed powders, such as dry mortars, adhesives and troweling compounds, blend VINNAPAS® 4023 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 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® 4023 N 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.

Additional information

If VINNAPAS® 4023 N is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® 4023 N is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

Slight discoloration may occur without impairing the product's functionality.

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	98 - 100 %
Ash Content	WACKER method	9 - 13 %
Bulk density	DIN EN ISO 60	470 - 570 kg/m³

Typical general characteristics	Inspection Method	Value
Appearance	Visual	white to pale yellow powder
Protective colloid / emulsifier system	WACKER method	polyvinyl alcohol
Particle size	DIN EN ISO 4610	Max. 4 % over 400 µm
Predominant particle size redispersion	WACKER method	0,5 - 8 µm
Minimum film forming temperature	DIN ISO 2115	1 °C
Film properties of the redispersion	WACKER method	cloudy, tough-elastic

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

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

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