

VINNAPAS® 530 ND

Product description

VINNAPAS® 530 ND is a dispersion which reduces the elastic modulus and enhances adhesion.

Properties

VINNAPAS® 530 ND is an unplasticized 55 % dispersion of a vinyl acetate/ethylene copolymer in water. VINNAPAS® 530 ND is suitable for modifying inorganic binders, such as cement, lime and gypsum, and improves their tensile adhesive strength, flexural strength, plasticity, abrasion resistance and workability. The dispersion can also be used as a sole binder for joint fillers, surface fillers and coatings.

Application

Primers, concrete repair mortars and cement admixes are the most important product applications for VINNAPAS® 530 ND.

VINNAPAS® 530 ND increases mechanical strength and significantly improves adhesion to the substrate. VINNAPAS® 530 ND is elastic and resistant to weathering even at low temperatures, and provide excellent anchorage on organic and inorganic substrates. The dispersion is therefore ideal for applications that require flexibility and good adhesion.

For typical application fields of VINNAPAS® 530 ND, refer to the following application table. Please discuss additional applications with your WACKER customer representative.

Application	Recommendation	Suitability
Primers	General purpose primers	●
	Adhesion primers	●
Concrete repair	Mortars with improved adhesion	●
	Highly elastic and weathering resistant mortars	○
Cement admix	Mortars with improved adhesion	●
	Highly flexible mortars with excellent crack-over-bridging	○
● highly recommended ○ recommended		

Processing

Modification

VINNAPAS® 530 ND is freely miscible with most VINNAPAS® dispersions and many other aqueous polymer dispersions. A storage check should always be carried out to ensure the compatibility of the mixture.

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. VINNAPAS® 530 ND has a shelf life of 6 months starting from the date of receipt if stored in the original, unopened containers at temperatures between 5 and 30 °C. Iron or galvanized-iron equipment and containers are not recommended because the dispersion is slightly acidic. Corrosion may result in discoloration of the dispersion or its blends when further processed. Therefore the use of containers and equipment made of ceramics, rubberized or enameled materials, appropriately finished stainless steel, or plastic (e.g. rigid PVC, polyethylene or polyester resin) is recommended. As polymer dispersions may tend to superficial film formation, skins or lumps may form during storage or transportation. Filtration is therefore recommended prior to utilization of the product.

Preservation for Transport, Storage and further Processing

VINNAPAS® 530 ND is adequately preserved during transportation and storage if kept in the original, unopened containers. However, if it is transferred to storage tanks, the dispersion should be protected against microbial attack by adding a suitable preservative package.

Measures should also be taken to ensure cleanliness of the tanks and pipes. In unstirred tanks, a layer of preservative-containing water should be sprayed onto the surface of the dispersion to prevent the formation of unwanted skin and possible attack by microorganisms. The thickness of this water layer

should be < 5 mm for low viscosity dispersions and up to 10–20 mm for high viscosity products. Proper procedures – periodic tank cleaning and sanitization – must be set up in order to prevent microbial attack. Contact your biocide representative/supplier for further plant hygiene recommendations. Measures should be taken to ensure that only clean air enters the tank when the dispersion is removed.

Finished products manufactured from polymer dispersions usually also require preservation. The type and scope of preservation will depend on the raw materials used and the anticipated sources of contamination. The compatibility with other components and the efficacy of the preservative should always be tested in the respective formulation. Preservative manufacturers will be able to advise you about the type and dosage of preservative required.

Packaging

Non-returnable PE drums of 150 kg capacity (standard

dispatch quantity: only fully-loaded pallets à 750 kg), non-returnable containers of 1 t capacity and road tankers.

Additional information

If VINNAPAS® 530 ND is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® 530 ND is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

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.

Product data

Specification data	Inspection Method	Value
Solids content	DIN EN ISO 3251	54 - 56 wt. %
Viscosity, dynamic at 23 °C	DIN EN ISO 2555	2000 - 2800 mPa.s
pH-Value	DIN/ISO 976	4,0 - 5,0

Typical general characteristics	Inspection Method	Value
Density at 23 °C	DIN EN ISO 2811-3	approx. 1,07 g/cm ³
Minimum film forming temperature	DIN ISO 2115	approx. 0 °C
Predominant particle size	specific method	approx. 1000 nm
Protective colloid / emulsifier system		polyvinyl alcohol
Compatibility with cement	specific method	very good
Appearance of the dispersion film	Visual	opaque
Glass transition temperature DSC	specific method	approx. 6 °C

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

The data presented in this medium 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 medium 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 information provided by us does 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 product 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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