

VINNAPAS® 530 ND



Polymer Dispersions

VINNAPAS® 530 ND is a construction dispersion for primers, cement admixes and repair mortars. VINNAPAS® 530 ND is based on a vinyl acetate/ethylene copolymer. It 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.

Technical data

Specification

Property	Condition	Value	Method
Viscosity, dynamic	23 °C	2000 - 2800 mPa·s	DIN EN ISO 2555
pH	-	4.0 - 5.0	DIN/ISO 976
Solids content	-	54 - 56 wt. %	DIN EN ISO 3251

General Characteristics

Property	Condition	Value	Method
Density	23 °C	approx. 1.07 g/cm ³	DIN EN ISO 2811-3
Minimum film forming temperature	-	approx. 0 °C	DIN ISO 2115
Predominant particle size	-	approx. 1000 nm	specific method
Protective colloid / emulsifier system	-	polyvinyl alcohol	-
Appearance of the dispersion film	-	opaque	Visual
Glass transition temperature	-	approx. 6 °C	specific method
Compatibility with cement	-	very good	specific method

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.

Applications

- Cement Admixtures
- Primer

Application details

Application:

Primers, cement admixes and concrete repair mortars are the most important applications for VINNAPAS® 530 ND. VINNAPAS® 530 ND increases mechanical strength and significantly improves adhesion to the substrate. Formulations based on VINNAPAS® 530 ND are elastic and resistant to weathering and provide excellent anchorage to 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 section "application". Please discuss additional applications with your WACKER customer representative.

Processing:

VINNAPAS® 530 ND can be blended with most VINNAPAS® dispersions and many other aqueous polymer dispersions in any ratio. When blending, it is important to adjust the pH of both dispersions which are to be blended in a pH range in which both dispersions are stable. Storage tests should be carried out to check the compatibility of the mixture.

Additional information

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

For questions concerning food contact status according to chapter 21 CFR (US FDA) and German BfR, please feel free to contact us.

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Packaging and storage

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.

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. The product 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. Any longer periods for the maximum storage period that may be described in the Certificate of Analysis which accompanies each shipment of the product, take preference over this suggestion in which case the time period stated in the Certificate of Analysis shall be solely authoritative. Iron or galvanized iron containers and equipment are not recommended. Corrosion could result in discoloration of the dispersion or blends made from it in further processing. We therefore recommend the use of containers and equipment made of ceramic, rubberized or enameled materials, appropriately finished stainless steel, or plastic (rigid PVC, polyethylene or polyester resin). As polymer dispersions may tend to superficial film formation, skins or lumps may be formed during storage or transportation. A filtration process is thus recommended prior to utilization of the product.

Preservation for Transport, Storage and further Processing

The product 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.

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® 530 ND



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

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