

# VINNAPAS<sup>®</sup> EP 523

## Polymer Dispersions

VINNAPAS<sup>®</sup> EP 523 is a plasticizer-free dispersion based on vinyl acetate and ethylen. It stands out due to its high cohesive force and great versatility and is recommended primarily for exterior applications.

## Properties

- High cohesive force
- High solids content for formulation flexibility and supply-chain efficiency
- Great versatility

## Technical data

### Specification

Property	Condition	Value	Method
Viscosity, dynamic	23 °C   Brookfield, spindle 4 / 20 rpm	3000 - 6000 mPa·s	DIN EN ISO 2555
pH	-	4.0 - 6.0	DIN/ISO 976
Solids content	-	59 - 61 wt. %	EN ISO 3251

## General Characteristics

Property	Condition	Value	Method
Minimum film forming temperature	-	approx. 4 °C	DIN ISO 2115
Predominant particle size	-	approx. 0.3 µm	specific method
Protective colloid / emulsifier system	-	Polyvinyl alcohol, surfactants	-
Appearance of the dispersion film	-	clear	Visual
Glass transition temperature	-	approx. 9 °C	specific method
Compatibility with cement	-	compatible	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

- Exterior Paints
- Ready-to-use dispersion-based Renders & Plaster
- Top Coats & Paints

## Application details

VINNAPAS® EP 523 has been proved in a wide range of application fields. Versatility is a particular strength of this binder. VINNAPAS® EP 523 can be used as binder in a variety of paints and plasters – in either cases outdoor as well as indoor. Particularly in combination with external thermal insulation composite systems (ETICS), VINNAPAS® EP 523 has proved itself as an excellent binder for resin bound plasters. Due to its minimum film forming temperature of approx. +2°C VINNAPAS® EP 523 does not need any coalescing aids for filming. Thus it is a very suitable binder for indoor paints and plasters which complies with the criteria of tighter environmental-labels.

## 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 the 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](http://www.wacker.com/vinnapas).

## QR Code VINNAPAS® EP 523



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

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