

# VINNAPAS® EZ 3112

## Polymer Dispersions

VINNAPAS® EZ 3112 is a protective colloid stabilized dispersion of a vinyl acetate, ethylene and vinyl ester terpolymer. VINNAPAS® EZ 3112 is free from alkyl phenol ethoxylate (APEO) containing compounds.

## Properties

- Fire resistance classes up to F120 achievable
- Excellent adhesion to substrates such as structural steelwork
- Significant foam development and expansion
- Higher hydrophobicity than standard VAEs
- Supports formulations without coalescing solvents
- Suitable for formulating very-low-VOC (< 1 g/l) intumescent coatings
- Produced without the use of APEOs

## Technical data

### Specification

Property	Condition	Value	Method
Solids content	-	49 - 51 %	DIN EN ISO 3251
Viscosity, dynamic	23 °C   Brookfield, spindle 3 / 20 rpm	1800 - 4000 mPa·s	DIN EN ISO 2555
pH	-	4.5 - 5.5	DIN/ISO 976

## General Characteristics

Property	Condition	Value	Method
Density	-	approx. 1.05 g/cm <sup>3</sup>	DIN EN ISO 2811-1
Minimum film forming temperature	-	approx. 0 °C	DIN ISO 2115
Frost resistance	-	protect from freezing	specific method
Predominant particle size	-	approx. 0.4 µm	specific method
Protective colloid / emulsifier system	-	ionic and nonionic surfactants and polymer compounds	-
Filler and pigment compatibility	-	very good	specific method
Appearance of the dispersion film	-	clear, glossy	Visual
Surface of the dispersion film	-	tack free	specific method
Electrolyte stability	-	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

- Intumescent Coatings

### Application details

VINNAPAS® EZ 3112 is designed as a binder for high performance intumescent paints.

VINNAPAS® EZ 3112 is compatible with multivalent salts and other ingredients which are typically used for intumescent paints.

Due to its low minimum film forming temperature of approx. 0°C VINNAPAS® EZ 3112 doesn't need any coalescence aids for filming.

### 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.

Wacker Chemie AG Hanns-Seidel-Platz 4 D-81737 München Germany

## Packaging and storage

### 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® EZ 3112



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

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