

VINNAPAS® EZ 3112

Product description

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.

Application

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.

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. VINNAPAS® EZ 3112 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® EZ 3112 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.

Additional information

If VINNAPAS® EZ 3112 is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® EZ 3112 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	49 - 51 %
Viscosity, dynamic at 23 °C	DIN EN ISO 2555	1800 - 4000 mPa.s
Measurement condition for the method	Brookfield, spindle 3 / 20 rpm	
pH-Value	DIN/ISO 976	4,5 - 5,5

Typical general characteristics	Inspection Method	Value
Density	DIN EN ISO 2811-1	approx. 1,05 g/cm ³
Minimum film forming temperature	DIN ISO 2115	approx. 0 °C
Frost resistance	specific method	protect from freezing
Predominant particle size	specific method	approx. 400 nm
Protective colloid / emulsifier system		ionic and nonionic surfactants and polymer compounds
Filler and pigment compatibility	specific method	very good
Electrolyte stability	specific method	very good
Appearance of the dispersion film	Visual	clear, glossy
Surface of the dispersion film	specific method	tack free

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:

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
info@wacker.com

www.wacker.com