

VINNAPAS® EZ 3019



Polymer Dispersions

VINNAPAS® EZ 3019 is a medium particle size, protective colloid stabilized dispersion of a vinyl acetate, ethylene and vinyl ester terpolymer. VINNAPAS® EZ 3019 is produced without the addition of any plasticizers or solvents. Additionally it is free from alkyl phenol ethoxylate (APEO) containing compounds.

Properties

- Excellent saponification resistance
- Good pigment binding ability
- Great versatility
- Allows formulation without coalescing solvents

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	49 - 51 %	DIN EN ISO 3251
Viscosity, dynamic	23 °C Brookfield, spindle 3 / 20 rpm	2100 - 3900 mPa·s	DIN EN ISO 2555
pH	-	4.5 - 5.5	DIN/ISO 976

General Characteristics

Property	Condition	Value	Method
Electrolyte stability	-	very good	specific method
Density	-	approx. 1.05 g/cm ³	DIN EN ISO 2811-1
Minimum film forming temperature	-	approx. 2 °C	DIN ISO 2115
Frost resistance	-	protect from freezing	specific method
Predominant particle size	-	approx. 300 nm	specific method
Protective colloid / emulsifier system	-	ionic and nonionic surfactants and polymer compounds	-
Filler compatibility	-	very good	specific method
Appearance of the dispersion film	-	clear, glossy	Visual
Surface of the dispersion film	-	tack free	specific method
Glass transition temperature	-	approx. 3 °C	DSC, 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.

Application details

High saponification resistance, good pigment binding properties open a variety of applications for VINNAPAS® EZ 3019. Due to its minimum film forming temperature of approx. +2°C VINNAPAS® EZ 3019 doesn't need any coalescence aids for filming.

Versatility is a special strength of this binder

VINNAPAS® EZ 3019 is a suitable binder for the formulation of pigmented exterior masonry coatings. Due to its excellent saponification resistance VINNAPAS® EZ 3019 can also be used in silicate paints as the organic component. To ensure a good shelf life, the formulation must be carefully built around the binder.

Due to its minimum film forming temperature of approx. +2 °C VINNAPAS® EZ 3019 can be used for solvent-free, plasticizer-free and low-odor interior paints.

Interior synthetic-resin-bound plasters based on VINNAPAS® EZ 3019 can be formulated – similar like interior paints without any coalescing agents or any plasticizers. Therefore, these plasters produce very low odour during and after application.

VINNAPAS® EZ 3019 is also a suitable binder specifically for the formulation of silicon resin modified paints and plasters. It is common to combine VINNAPAS® EZ 3019 in such applications with masonry water repellents SILRES® BS 45 and SILRES® BS 1306 to yield high water vapor permeability combined with very low liquid water absorption.

In External Thermal Insulation Composite Systems (ETICS) VINNAPAS® EZ 3019 can be used as a binder for styrene-panel adhesive, base coat and resin bound plaster. Hence, only one binder is needed for the whole system.

VINNAPAS® EZ 3019 can also be used in cementitious styrene-panel adhesives by addition of wetting agents like ¹Emulan® OG.

The Fire Class B1 as per EN 13501-1 (which applies to ETICS) can be reached by the addition of flame retardant additives like aluminium hydroxide.

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

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® EZ 3019



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

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