

VINNAPAS® EF 1577 (CGN)



Polymer Dispersions

VINNAPAS® EF 1577 (CGN) is an aqueous polymer dispersion based on vinyl acetate and ethylene. The dispersion is not produced with any added organic solvents, plasticizers or formaldehyde donors.

Properties

- VINNAPAS® EF 1577 (CGN) can be used to produce plasticizer-free textile coatings with good permanent flexibility and resistance to ageing.
- VINNAPAS® EF 1577 (CGN) offers high dry strength, excellent absorbent properties and imparts medium/ firm hand.
- It can also be used as a binder for medium soft nonwovens with limited wet strength at a very low formaldehyde content.

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	55 - 57 %	DIN EN ISO 3251
Viscosity, dynamic	23 °C	150 - 1850 mPa·s	DIN EN ISO 2555
pH	-	3.5 - 5.5	DIN/ISO 976

General Characteristics

Property	Condition	Value	Method
Density	-	approx. 1.07 g/cm ³	ISO 2811
Minimum film forming temperature	-	0 °C	DIN ISO 2115
Frost resistance	-	protect from freezing	-
Predominant particle size	-	approx. 200 nm	specific method
Protective colloid / emulsifier system	-	anionic surfactants	-
Appearance of the dispersion film	-	clear, glossy	Visual
Glass transition temperature	-	approx. 10 °C	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

- Textile Finishing
- Nonwovens & Fibers

Application details

General

VINNAPAS® EF 1577 (CGN) can be applied by a number of different application methods including foaming (direct coating), pan coating, saturation and spraying.

It performs well on various fiber types including polypropylene, polyamide, cellulose and polyester.

Processing

VINNAPAS® EF 1577 (CGN) can take high filler loads with calcium carbonate or aluminium trihydrate (ATH) for compounding. Surfactants can also be added to VINNAPAS® EF 1577 (CGN) to improve penetration of the binder into the substrate and improve absorbency of the finished product. Effective surfactant levels are 0.5 to 1.0% on dispersion solids. Their compatibility and efficacy should be evaluated.

Polymer Dispersions

VINNAPAS® EF 1577 (CGN) can be mixed with most VINNAPAS® and VINNOL® dispersions as well as with most anionic and/or nonionic aqueous polymer dispersions. Here too, the compatibility of the mixture should be tested by conducting a storage test.

We recommend alkali-swellable poly(acrylic acid) derivatives or products with neutral pH, e.g., those based on cellulose derivatives, poly(vinyl alcohol) or polyurethane. Their compatibility and efficacy should be evaluated.

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. VINNAPAS® EF 1577 (CGN) 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 VINNAPAS® EF 1577 (CGN), 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 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® EF 1577 (CGN) 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.

Safety notes

Comprehensive instructions are given in the appropriate Material Safety Data Sheets. These are available on request from WACKER sales offices.

QR Code VINNAPAS® EF 1577 (CGN)



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

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