

VINNAPAS® CEZ 3031

Product description

VINNAPAS® CEZ 3031 is a medium particle size, protective colloid-containing aqueous dispersion of a terpolymer of vinyl acetate, ethylene and vinyl chloride.

The principal feature of VINNAPAS® CEZ 3031 is its wide range of uses in coating systems containing opacifying pigments. The dispersion is low in odor and is produced without the use of alkyl phenol ethoxylate (APEO) containing compounds.

Application

VINNAPAS® CEZ 3031 has proved to be an outstanding binder in many fields of application and versatility is its special strength.

VINNAPAS® CEZ 3031 is particularly recommended to produce masonry paints with good hiding power and great flexibility.

Thanks to its good resistance to saponification, VINNAPAS® CEZ 3031 can be employed as the organic polymer component of organo-silicate paints and plasters. To ensure a good shelf life, the formulation must be carefully built around the binder.

To achieve optimum weathering resistance, opaque pigments should be used to ensure adequate pigmentation.

Due to its minimum film forming temperature of approx. +2°C VINNAPAS® CEZ 3031 doesn't need any coalescence aids for filming and so it's a very suitable binder for paints which complies with strict eco-labeling requirements.

VINNAPAS® CEZ 3031 has proved itself as an excellent binder for synthetic resin plasters, especially in exterior insulation and finish systems (EIFS). In such a system, VINNAPAS® CEZ 3031 can also be used as binder for the styrene-panel adhesive and for the base coat. In other words, only one binder is needed for the entire system. The dispersion is readily compatible with Portland cement and hardly influences its setting time - a fact which is exploited to increase the water resistance of the adhesive and base coat. By virtue of the low flammability of VINNAPAS® CEZ 3031,

correctly installed EIFS with this composition fall under Fire Class B as per EN 13501-1 (which applies to EIFS). Interior plasterwork based on VINNAPAS® CEZ 3031 does not require the use of film-forming agents and has the advantage of producing very little odor while being applied.

VINNAPAS® CEZ 3031 can be blended with the most anionic and/or nonionic aqueous polymer dispersions. However, the compatibility of the mixture should be tested by means of a storage test. This is because, despite good polymer compatibility, differences in the refractive indices sometimes cause cloudiness in the dry dispersion film.

VINNAPAS® CEZ 3031 is compatible with common pigments and extender and is easy to process.

VINNAPAS® CEZ 3031 forms a film (as per ISO 2115) at 2 °C and can therefore usually be processed - especially for interior applications - without the addition of film-forming agents.

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. VINNAPAS® CEZ 3031 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® CEZ 3031 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® CEZ 3031 is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® CEZ 3031 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	6000 - 12000 mPa.s
Measurement condition for the method	Brookfield, spindle 5 / 20 rpm	
pH-Value	DIN/ISO 976	4 - 5
Typical general characteristics	Inspection Method	Value
Density	DIN EN ISO 2811-1	approx. 1,09 g/cm ³
Minimum film forming temperature	DIN ISO 2115	approx. 2 °C
Frost resistance	specific method	protect from freezing
Predominant particle size	specific method	approx. 700 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	slightly tacky

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:

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