VINNAPAS® EAF 730

Polymer Dispersions

VINNAPAS® EAF 730 is a polymer dispersion based on vinyl ester, ethylene and acrylic acid ester. It is characterized by its very good hydrophobic properties combined with an excellent color stability.

Properties

- Excellent cost-in-use compared to alternative high-end technologies
- Perfectly spans all PVC levels (30% – 90%)
- Very good hydrophobicity
- Outstanding color stability and compatibility even with sensitive organic pigments
- Higher inherent flame retardancy than standard acrylic systems
- Very good film-forming properties
- Very good scrub resistance
- High blocking resistance
- Very low dirt pick-up
- Excellent saponification resistance
- Very good compatibility with cement
- Produced without the use of APEOs

Technical data

Specification

Property	Condition	Value	Method
Viscosity, dynamic	Brookfield, spindle 4 / 20 rpm	1000 - 6000 mPa·s	DIN EN ISO 2555
pH	-	7.5 - 8.5	DIN/ISO 976
Solids content	-	52 - 54 wt. %	DIN EN ISO 3251

General Characteristics

Property	Condition	Value	Method
Minimum film forming temperature	-	approx. 3 °C	DIN ISO 2115
Predominant particle size	-	approx. 200 nm	specific method
Protective colloid / emulsifier system	-	anionic surfactants	specific method
Appearance of the dispersion film	-	clear	Visual
Glass transition temperature	-	approx. 3 °C	specific method
Compatibility with cement	-	compatible	specific method

These figures are only intended as a guide and should not be used in preparing specifications.

Applications

- Exterior Paints & Coatings
- Ready-to-Use Base Coats
- Ready-to-use dispersion-based Renders & Plaster

Application details

The principal feature of VINNAPAS® EAF 730 is its wide range of uses in coating systems containing opacifying pigments. Versatility is its special strength.

VINNAPAS® EAF 730 is particularly recommended to produce masonry paints with good hiding power and great flexibility. Thanks to its good resistance to saponification, VINNAPAS® EAF 730 can be employed as the organic polymer component of organo-silicate paints and renders. To ensure a good shelf life, the formulation must be carefully built around the binder. Due to its minimum film forming temperature of approx. +3°C VINNAPAS® EAF 730 does not need any coalescing aids for filming, thus it is a very suitable binder for paints which complies with the criteria of tighter environmental-labels.
VINNAPAS® EAF 730 has proved itself as an excellent binder for resin bound plasters, especially in external thermal insulation composite systems with rendering (ETICS). In such a system, VINNAPAS® EAF 730 can also be used as binder for the base coat. Hence, only one binder is needed for the entire system.
The dispersion is readily compatible with Portland cement and its setting behavior is hardly influenced. As a consequence, water resistance of the base coat can be increased.
Due to the low calorific value of VINNAPAS® EAF 730, correctly installed ETICS with this composition fall under Fire Class A2 as per EN 13501.
VINNAPAS® EAF 730 is also a suitable binder for silicone resin emulsion paints (SREP) as well silicone renders.

Please discuss additional applications with your WACKER customer representative.

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

Packaging

Non-returnable PE drums of 150 kg capacity (standard dispatch quantity: only fully-loaded pallets à 750 kg), non-returnable containers of 1 t capacity and road tankers.

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® EAF 730

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

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