

VINNAPAS® EP605A

Product description

VINNAPAS® EP605A emulsion is a Formaldehyde Free vinyl acetate-ethylene copolymer developed as a base polymer for high-performance adhesives. Also this grade has below 1000ppm residual monomer. The low product viscosity as well as good Newtonian flow behavior of VINNAPAS® EP605A is good for high-speed packaging machines.

Properties

VINNAPAS® EP605A emulsion is chemically stable at both high and low pH. It is compatible with other polyvinyl acetate (PVAc) polymers, rubber lattices, EVCL dispersions and Airflex VAE emulsions. It is also compatible with an assortment of resins, solvents, plasticizers and other modifiers..

Application

VINNAPAS® EP605A emulsion forms strong bonds between porous substrates and various films. VINNAPAS® EP605A bonds such widely diversified substrates as paper, wood, cotton cloth, nylon cloth, hardboard, urethane foam and certain types of coated paperboard.

Typical application fields of VINNAPAS® EP605A are as follows:

- Packaging (window cartons and carton forming)
- Luggage and handbags
- Envelop and Bookbinding
- Textiles or Upholstery
- Cigarette tipping / seaming & packaging

It has a good stability at high-speed machines and is suitable for either of roll, extruder or spray application.

Storage

When VINNAPAS® EP605A dispersion is stored in tanks, proper storage conditions must be maintained. If stored in the original, unopened containers at cool (below 30 °C) but frost-free temperatures VINNAPAS® EP605A dispersion has a shelf life of 6 months. 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.

Preservation for transport, storage and further processing

VINNAPAS® EP605A dispersion 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. 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. Measures should be taken to ensure that only bacteria-free 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.

Packaging

200 kg returnable steel drum, 1 t non-returnable containers and road tanker.

Additional information

If VINNAPAS® EP605A is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® EP605A is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

For questions concerning food contact status according to chapter 21 CFR (US FDA) and German BfR, please contact:

Wacker Chemie AG
Hanns-Seidel-Platz 4
D-81737 Munich
Germany

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER sales offices or may be printed via WACKER web site
www.wacker.com/vinnapas

Product data

Specification data	Inspection Method	Value
Solids content	ISO 12099	> 54.5 wt. %
Viscosity, dynamic at 25 °C	DIN EN ISO 2555	1,900 – 2,800 cps
pH concentration	DIN/ISO 976	4.0 – 6.0
Typical general characteristics	Inspection Method	Value
Density at 20 °C	ISO 2811	approx. 1,07 g/cm ³
Minimum film forming temperature	DIN ISO 2115	0 °C
Frost resistance		protect from freezing
predominant particle size	WACKER method	approx. 1,000 nm
Protective colloid / emulsifier system	WACKER method	PVOH
Filler and pigment compatibility	WACKER method	very good
Appearance	Visual	clear, glossy
Surface	WACKER method	Slight Dry Tack
Tensile strength	DIN EN ISO 527-3	approx. 5 N/mm ²
Elongation at break	DIN EN ISO 527-3	approx. 500 %
Glass transition temperature	WACKER method	approx. 0 ± 2 °C

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products 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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