

VINNAPAS® 100HS

Product description

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VINNAPAS® 100HS is a fine particle size, aqueous dispersion of a vinyl acetate-ethylene (VAE) copolymer.

Properties

VINNAPAS® 100HS dispersion is a flexible polymer, highly plasticized internally, with a fine particle size.

Application

Vinnapas 100HS dispersion has been designed as a pigment binder for paper, paperboard and specialty coated papers. Vinnapas 100HS exhibits higher dry pick strength, sheet gloss and printed ink gloss than conventional polyvinyl acetate homopolymers and most vinyl acetate-acrylic copolymers. Coatings containing Vinnapas 100HS develop a high degree of smoothness and compressibility making it an ideal binder for rotogravure printing while also imparting a high degree of coating flexibility.

Processing

Vinnapas 100HS dispersion is compatible with other lattices and co-binders such as starch, soy protein, and polyvinyl alcohol. Vinnapas 100HS dispersion is an extremely versatile binder, finding use as the sole binder or primary binder in SBS board, SUS board, recycled board, specialty coated paper, wallpaper and pigmented size press applications.

Storage

When VINNAPAS® 100HS 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® 100HS 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® 100HS 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.

To maintain proper storage conditions appropriate measures should also be taken to ensure cleanliness of the tanks and piping. In a storage tank in which VINNAPAS® 100HS is not stirred, it is advisable to contact your biocide representative/supplier. Proper procedures must be set up in order to prevent microbial attack between necessary periodic tank cleaning and sanitization. These procedures will vary, since loading and unloading practices in each storage situation will differ slightly.

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® 100HS is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® 100HS 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
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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	02CM170	54.5 - 56.0 %
Viscosity, Brookfield LVF#3 @60rpm, 25°C	AM622	300 - 800 cPs
pH-Value	AM631	5.0 – 6.0
VAM by Head Space GC	AM624	<0.5% max.
Typical general characteristics	Inspection Method	Value
Density	WACKER method	1.06 g/cm ³
Predominant particle size	WACKER method	approx. 150 - 190 µm
Glass transition temperature DSC	WACKER method	approx. +5 °C

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

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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