

VINNAPAS® EP907

Product description

VINNAPAS® EP907 is a vinyl acetate/ethylene based dispersion engineered for nonwoven applications requiring break down and re-dispersion in water. Substrates bound with VINNAPAS® EP907 exhibit good dry tensile strength but essentially disintegrate when exposed to water.

Properties

VINNAPAS® EP907 may be used as a binder in nonwoven applications where stiff hand and dry tensile properties are required. When placed in water and agitated, substrates bound with VINNAPAS® EP907 break down and disperse into smaller fragments of individual fibers. The dispersion is stabilized with an APE free surfactant system and has a low formaldehyde level of less than 50 ppm.

Application

VINNAPAS® EP907 can be applied by a number of different application methods including saturation, spraying, foaming and print bonding.

VINNAPAS® EP907 performs well on various fiber types including cellulose, rayon, glass, and polyester based substrates. This dispersion is especially suited for use in dry wipe absorbent products. Due to the dispersion's nonionic particle charge, VINNAPAS® EP907 exhibits good compatibility with most cationic and anionic additives.

Processing

VINNAPAS® EP907 can be diluted with water prior to substrate application. Other additives can then be added under good agitation although Boron containing products may cause the product to gel.

Surfactants can also be added to VINNAPAS® EN1267 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.

Storage

When VINNAPAS® EP907 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® EP907 has a shelf life of 9 months from the date of manufacture. 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 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

VINNAPAS® EP907 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® EP907 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® EP907 is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® EP907 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	specific method	54.0 - 56.0 %
Viscosity, dynamic at 25 °C	specific method	1800 - 2700 mPa.s
pH-Value	specific method	4.0 - 5.0
Grit 100 Mesh	specific method	max. 50 ppm

Typical general characteristics	Inspection Method	Value
Density	specific method	1.05 g/cm ³
Mechanical stability	specific method	excellent
Freeze thaw stability	specific method	poor
Glass transition temperature DSC	specific method	approx. 17 °C
Water resistance	specific method	poor - fair
Film clarity	specific method	slightly hazy
Dry tack	specific method	none

Figures below "Typical general characteristics" are 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:

Wacker Chemical Corporation
3301 Sutton Road
Adrian, MI 49221-9397, USA
info@wacker.com

www.wacker.com