

VINNAPAS[®] eco EN 1024 (XX MB)

VINNAPAS[®]

Polymer Dispersions

VINNAPAS[®] eco EN 1024 (XX MB) is a self-crosslinking, aqueous polymer dispersion based on the monomers vinyl acetate and ethylene. VINNAPAS[®] eco EN 1024 (XX MB) is produced without the use of plasticizer.

VINNAPAS[®] eco is a fossil resources saving product, where a specific share of the fossil-based raw materials required for manufacturing of this product can be replaced by certified sustainable renewable feedstock. The substitution is based on the REDcert² mass balance approach, audited by an independent third party.

The exact amount of fossil raw material replaced depends on the selected product version and is specified in the corresponding certificate. Please contact your WACKER representative or visit the product page on the WACKER website www.wacker.com for additional information regarding WACKER's products or sustainability efforts, including mass balance.



Properties

VINNAPAS[®] eco EN 1024 (XX MB) is particularly suitable as a binder for soft and hydrophilic nonwovens. The dispersion provides good wet strength while the formaldehyde level on the nonwovens remains low. VINNAPAS[®] eco EN 1024 (XX MB) is particularly suitable for foam application.

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	52 - 54 %	DIN EN ISO 3251
Viscosity, dynamic	23 °C	100 - 600 mPa·s	DIN EN ISO 2555
pH	-	4 - 5	DIN/ISO 976

General Characteristics

Property	Condition	Value	Method
Density	23 °C	approx. 1.04 g/cm ³	DIN EN ISO 2811-3
Minimum film forming temperature	-	approx. 0 °C	DIN ISO 2115
Frost resistance	-	protect against freezing	-
Protective colloid / emulsifier system	-	anionic surfactants	-
Appearance of the dispersion film	-	clear, glossy	Visual
Surface of the dispersion film	-	slightly tacky	-
Elongation at break ⁽¹⁾	-	approx. 800 %	DIN EN ISO 527, part 1 - 3
Glass transition temperature	-	approx. -11 °C	specific method
Predominant particle size	-	approx. 0.3 µm	specific method
Tensile strength ⁽²⁾	-	approx. 2.0 N/mm ²	DIN EN ISO 527, part 1 - 3

¹crosslinked

²crosslinked

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

General

VINNAPAS® eco EN 1024 (XX MB) is particularly suitable for foam application. However, it may also be applied via other methods (e.g. size press, impregnation or spraying).

Polymer Dispersions

VINNAPAS® eco EN 1024 (XX MB) can be mixed with most of the VINNAPAS® and VINNOL® dispersions and with many other anionic and/ or non-ionic aqueous polymer dispersions. However, the compatibility of the mixture should be tested by undertaking a storage test. Temperatures above 150 °C are necessary to achieve proper crosslinking.

Defoaming Agents

Suitable defoaming agents include 1)SILFOAM® SE1662, 2) FOAMASTER® WO 2310, 3)AGITAN® 352 or 4)Surfynol® DF58. The compatibility and efficiency should be tested in any case.

1) SILFOAM® is a trademark of Wacker Chemie AG

2) FOAMASTER® is a trademark of BASF SE

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

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. VINNAPAS® EN 1024 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 then 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® eco EN 1024 (XX MB) 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 appropriate Material Safety Data Sheets. These are available on request from WACKER sales offices.

QR Code VINNAPAS® eco EN 1024 (XX MB)



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

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productinformation@wacker.com, www.wacker.com

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