

VINNAPAS® 764 ED



Polymer Dispersions

VINNAPAS® 764 ED is a construction dispersion for two-component dry mix mortars, specifically suited for cement admixtures and two-component cementitious waterproofing membranes which require high flexibility at very low temperatures. VINNAPAS® 764 ED belongs to the product class VINNAPAS® ED. It is based on a highly flexible terpolymer of vinyl acetate, ethylene and acrylic acid ester which means that it enhances adhesion and flexibility of mortars.

Properties

- VINNAPAS® 764 ED is a medium particle size, high solids content (60% ± 2%) vinyl acetate - ethylene - vinyl acrylic acid ester dispersion stabilized with surfactants.
- VINNAPAS® 764 ED is a modifying resin which can be used in hydraulically setting compounds to introduce flexibility and adhesion.
- Thus, flexible adhesives and water proofing membranes are the selected applications.
- VINNAPAS® 764 ED combines high solids content with excellent flexibility - especially at very low temperatures. Additionally it displays an excellent compatibility with inorganic binders as high alumina-cement, calcium-sulfur-aluminate and ordinary Portland cement
- Due to its high solids content VINNAPAS® 764 ED allows a broad range of polymer to cement ratios in hydraulic setting compounds.

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	58 - 62 %	DIN EN ISO 3251
Viscosity, dynamic	23 °C Brookfield, spindle 4 / 20 rpm	4500 - 9500 mPa·s	DIN EN ISO 2555
pH	-	4 - 5	DIN/ISO 976

General Characteristics

Property	Condition	Value	Method
Minimum film forming temperature	-	0 °C	DIN ISO 2115
Frost resistance	-	protect from freezing	specific method
Protective colloid / emulsifier system	-	surface active agents	-
Filler compatibility	-	very good	specific method
Glass transition temperature	-	approx. -30 °C	DSC, specific method
Compatibility with cement	-	very good	specific method

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

Application:

Formulations based on VINNAPAS® 764 ED are highly elastic and resistant to weathering even at very low temperatures (-20 °C). They provide excellent adhesion on organic and inorganic substrates. The dispersion is therefore ideal for applications which require very high flexibility yet good adhesion. Its excellent compatibility with anorganic binders like high alumina-cement, calcium-sulfur-aluminate and also ordinary Portland cement makes VINNAPAS® 764 ED ideal for the modification of cementitious products. The dispersion can be used either as premix – containing e.g. stabilizer, antifoam agent and fillers – to which cement is added at the construction site, or - even more ideally - as a 2-component system comprising, firstly, a premix of cement, additives and fillers, and secondly, the dispersion, which may need to be diluted. If VINNAPAS® 764 ED is used to flexibilize purely Portland cement-containing products, it should be noted that this delays the setting of the Portland cement.

In pure dispersion based applications VINNAPAS® 764 ED can also be used for flexible (crack-bridging) waterproofings or adhesives. It is suitable as a flexible constituent for blending with less flexible dispersions.

Processing:

VINNAPAS® 764 ED can be blended with most VINNAPAS® dispersions and many other polymer dispersions in any ratio. When blending, it is important to adjust the pH of both dispersions which are to be blended in a pH range in which both dispersions are stable. Storage tests should be carried out to check the compatibility of the mixture.

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® 764 ED has 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 VINNAPAS® 764 ED, 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 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 resins) is recommended. As polymer dispersion may tend to superficial film formation, skins or lumps may form during storage or transportation. Filtration is therefore recommended to utilization prior of the product.

Preservation for Transport, Storage and further Processing

VINNAPAS® 764 ED 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 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® 764 ED



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

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