

VINNAPAS® 537 ED



Polymer Dispersions

VINNAPAS®-modified waterproofing membranes reliably protect buildings from water, even under hydrostatic pressure and at low temperatures. With VINNAPAS® 537 ED, WACKER now offers a novel cement compatible, vinyl acetate-ethylene based allround dispersion that complements its portfolio of polymer dispersions for waterproofing membranes. Due to its polymer base and its co-stabilization with polyvinyl alcohol & surfactant, VINNAPAS® 537 ED is suitable for several applications such as 2-component cementitious water proofing systems, as bonding agent or for jobsite mortar modification. Additionally VINNAPAS® 537 ED offers outstanding dilution stability.

Properties

- VINNAPAS® 537 ED is an aqueous polymer dispersion based on vinyl acetate and ethylene with a solid content of 60 %
- The dispersion is produced without the use of alkyl phenol ethoxylate (APEO) containing compounds, also formaldehyde donor free.
- VINNAPAS® 537 ED is particularly suited for modifying mineral mortars. It improves the adhesion to inorganic and organic substrates, as well as crack-bridging and flexural strength.

Technical data

General Characteristics

Property	Condition	Value	Method
Minimum film forming temperature	-	2 °C	specific method
Frost resistance	-	protect from freezing	specific method
Predominant particle size	-	approx. 0.5 µm	specific method
Protective colloid / emulsifier system	-	ionic and nonionic surfactants and polymer compounds	-
Filler and pigment compatibility	-	very good	specific method
Appearance of the dispersion film	-	clear, glossy	Visual
Surface of the dispersion film	-	tack free	specific method
Appearance	-	milky, white	visual check

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.

Applications

- Cement admixtures
- Primer
- Two Component Cementitious Waterproofing Membranes

Application details

VINNAPAS® 537 ED offers several advantages in a wide range of building chemical and construction applications and exhibits a high compatibility towards cement. The dispersion is characterized by a high bond strength combined with increased flexural strength, high flexibility and good compatibility with inorganic fillers like CaCO₃.

We recommend VINNAPAS® 537 ED for applications such as waterproofing membranes (WPM), bonding agents, tile adhesives, putties and joint compounds and cement admixtures. VINNAPAS® 537 ED offers the following advantages:

- Improvement of adhesion and cohesion
- Significant increase in flexibility
- High resistance to hydrostatic water pressure
- Significant increase of crack-bridging ability
- Vapor permeability
- Excellent compatibility with cement
- No odor

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. The product has a shelf life of 9 months starting from the date of manufacture 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 the product, 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 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

The product 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 sanitation - 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. If the product is stored for a longer period, stirring is recommended before use.

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® 537 ED



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

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