

VINNAPAS[®] 240 HD



Polymer Dispersions

VINNAPAS[®] 240 HD is a multi-purpose construction dispersion for liquid and paste, cement-free binder technology, specifically suited for primers, ready-to-use tile adhesives and one-component dispersion-based water-proofing membranes. It is based on a flexible copolymer of styrene and acrylate and belongs to the product class VINNAPAS[®] HD which means that it provides a remarkable hydrophobic effect in addition to the excellent adhesion even under wet conditions.

Properties

- VINNAPAS[®] 240 HD is a fine-particle 50% dispersion of a styrene/acrylic acid ester copolymer in water.
- Films based on VINNAPAS[®] 240 HD possess high water resistance and excellent adhesion even in wet conditions.
- VINNAPAS[®] 240 HD is also produced without the use of film-forming agents.

Technical data

Specification

| Property | Condition | Value | Method |
|--------------------|--|------------------|-----------------|
| Viscosity, dynamic | 23 °C Brookfield, spindle 3 / 20 rpm | 700 - 3000 mPa·s | DIN EN ISO 2555 |
| pH | - | 7.0 - 8.0 | DIN/ISO 976 |
| Solids content | - | 49 - 51 % | DIN EN ISO 3251 |

General Characteristics

| Property | Condition | Value | Method |
|--|-----------|----------------|-----------------|
| Minimum film forming temperature | - | approx. 0 °C | DIN ISO 2115 |
| Protective colloid / emulsifier system | - | surfactants | - |
| Appearance of the dispersion film | - | clear, glossy | Visual |
| Glass transition temperature | - | approx. 0 °C | specific method |
| Cement compatibility | - | incompatible | specific method |
| Predominant particle size | - | approx. 100 nm | 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.

Applications

- Adhesive and Embedding Mortars
- One Component Ready-to-use Waterproofing Membrane
- Primer
- Ready-to-Use Tile Adhesives

Application details

VINNAPAS® 240 HD is highly compatible with standard pigments and fillers. When using the dispersion in the preparation of filled, pasty compounds, it is advisable to raise its pH to a value > 7.5 prior to the addition of fillers. Since VINNAPAS® 240 HD contains no free ammonia, ammonia-free compounds can be prepared by adding KOH or 1)AMP-95®. Because of the low minimum film forming and glass transition temperature an addition of organic solvents or plasticizers is not necessary.

VINNAPAS® 240 HD is ideal for use in pasty construction and tile adhesives whose high adhesive strength is not affected by water or dampness. VINNAPAS® 240 HD can be used to produce construction adhesives and primers conforming to strict eco-labeling requirements.

For typical application fields of VINNAPAS® 240 HD, refer to the section "application". Please discuss additional applications with your WACKER customer representative.

Packaging and storage

Packaging

Non-returnable PE drums of 150 kg capacity (standard dispatch quantity: only fully-loaded pallets à 750 kg), non-returnable containers of 1 t capacity and road tankers.

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. The product 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. 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 containers and equipment are not recommended. Corrosion could result in discoloration of the dispersion or blends made from it in further processing. We therefore recommend the use of containers and equipment made of ceramic, rubberized or enameled materials, appropriately finished stainless steel, or plastic (rigid PVC, polyethylene or polyester resin). 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:

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 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 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® 240 HD



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

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