

VINNAPAS® CA 5824

Polymer Dispersions

VINNAPAS® CA 5824 is an aqueous polymer dispersion based on vinyl acetate and ethylene. It is particularly suited in carpet binder applications where a medium/ firm hand is required.

Properties

- VINNAPAS® CA 5824 combines high solids content with a low viscosity a combination that permits the addition of very high filler loadings of calcium carbonate, aluminum trihydrate (ATH) or other fillers. This results in adhesive formulations with high solid contents of 80 percent or even greater.
- It was designed to increase open time with a humectant. The stabilization allows the dispersion to be compatible with acrylic dispersions and many styrene-butadiene lattices.
- VINNAPAS® CA 5824 is produced without the use of organic solvents, plasticizers or formaldehyde donors.

Technical data

Specification

| Property | Condition | Value | Method |
|--------------------|-----------|-------------------|-----------------|
| Solids content | - | 54 - 56 % | specific method |
| Viscosity, dynamic | 25 °C | 1500 - 2500 mPa·s | specific method |
| pH | - | 4.0 - 6.0 | specific method |

General Characteristics

| Property | Condition | Value | Method |
|--|-----------|--------------------------------|-----------------|
| Density | 20 °C | approx. 1.07 g/cm ³ | specific method |
| Minimum film forming temperature | - | 0 °C | specific method |
| Frost resistance | - | protect from freezing | - |
| Protective colloid / emulsifier system | - | polyvinyl alcohol | - |
| Filler and pigment compatibility | - | excellent | specific method |
| Glass transition temperature | - | ± 3 19 °C | specific method |
| Predominant particle size | - | approx. 1 µm | 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

- Tufted Carpet Tiles

Application details

General

VINNAPAS® CA 5824 can be used in the precoat and secondary coatings that are applied in the production of tufted carpet backings. It can also be used in the production of tufted carpet tiles and woven carpets. VINNAPAS® CA 5824 offers high adhesion strength, and good flexibility.

Special

VINNAPAS® CA 5824 can be applied by a number of different application methods including foaming (direct coating), pan coating, saturation and spraying.

VINNAPAS® CA 5824 performs well on various fiber types including polypropylene, polyamide, cellulose, and polyester.

Processing

VINNAPAS® CA 5824 can take high filler loads with calcium carbonate or aluminium trihydrate (ATH) for compounding. Foam additives and surfactants can be added to VINNAPAS® CA 5824 to improve foamability and filler acceptance. The compatibility and efficacy should always be checked by conducting a storage test.

Polymer Dispersions

VINNAPAS® CA 5824 can be mixed with most VINNAPAS® and VINNOL® dispersions as well as with most anionic and / or nonionic aqueous polymer dispersions. VINNAPAS® CA 5824 is also compatible with many SB latex products. Here too, the compatibility of the mixture should be tested by conducting a storage test.

Defoaming Agents

Suitable defoaming agents include

- 1) SILOFOAM® SE9 or
- 2) Surfynol® DF58.

The compatibility and efficiency should be tested in each case.

Thickening Agents

We recommend alkali-swellable poly(acrylic acid) derivatives or products with neutral pH, e.g., those based on cellulose derivatives, poly(vinyl alcohol) or polyurethane. Their compatibility and efficacy should be evaluated.

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 to chapter 21 CFR (US FDA) and German BfR, please feel free to contact us.

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Packaging and storage

Packaging

200 kg returnable steel drum, 1 t non-returnable containers and road tanker.

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 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® CA 5824



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

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