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Vinofan® BA 739 sa

Polymer Dispersions for Architectural Coatings

Product description

Vinofan® BA 739 sa, It is an aqueous dispersion of a vinyl acrylic copolymer designed for use in paints, providing broad formulation.

Chemical nature

Aqueous dispersion of vinyl and acrylic copolymers.

Key benefits

- Good capacity for wetting loads.
- Product that offers a low demand for coalescent agent.
- Wide versatility of possible applications for both indoor and outdoor use.
- Very good consistency of formulation results.
- Good resistance to wet rub tests compared to conventional products.

Properties

Physical form

Liquid dispersion.

Technical data
(no supply specification)

Solids Content		55%
pH Value		4.0 – 6.0
MFFT		~ 10 °C
Brookfield viscosity	(RVT, 3/10, 23°C)	3.000 – 7.000 mPa·s
Density		1.10 g/cm³

Application

On the design of Vinofan® BA 739 sa, it was considered to be able to satisfy the generality of the standard conditions of the architectural paint market. In the case of an aqueous dispersion of vinyl and acrylic copolymers, several of the technical attributes can be overcome with styrene acrylic or pure acrylic technology, but the aspects related to the economy of the formulation must be carefully observed.
The first stage of making the coating will consider the dispersion of inorganic fillers such as; calcite, dolomite, talc, TiO2 and others. For this purpose, the operation can be carried out on a disperser with high revolutions. It is recommended to initially disperse pigments and fillers in an alkaline medium in the presence of dispersants and humectants, such as: Dispex® AA 4140, Dispex® CX 4345 and / or Hydropalat® WE 3320. If there is a need to manufacture highly viscous products such as spatular putties or mastics for leveling surfaces, the dispersion must first be put together with the auxiliaries.
To adjust the viscosity and the application properties of paints and plasters, thickeners of the hydroxytethylcellulose (HEC) or carboxymethylcellulose (CMC) type can be used. The above can be supplemented with a variety of additives to modify the rheology. p. eg, associative urethanic type such as; Rheovis® PU 1331, Rheovis® PU 1291, Rheovis® PU 1191. In addition, it may be necessary to enhance the thickening and anti-settling properties of coatings by completing with small additions of; Attagel® 40 or Attagel® 50.
If it is required to form a film at temperatures below 10 ° C, the addition of film-forming agents will be necessary. As such they can be used from p. eg, mineral spirits, glycol ethers and their acetates. For these same purposes, you can think of adding products such as; Loxanol® CA 5308 or Loxanol® CA 5310. The amounts to be used must be determined experimentally in each case.
Since Vinofan® BA 739 sa, like all fine particle dispersions, has a tendency to foam during the manufacture of coatings, it is necessary to use an antifoam in amounts of the order of 0.3–1.0%. The suitability of the defoamer, also in relation to long-term effectiveness, should be checked in previous tests. Advantages can be evaluated with the use of eg; Foamaster® MO 2159, FoamStar® ST 2410 or FoamStar® ED 2522.

Storage

Vinofan® BA 739 sa, must not be allowed to come into contact during storage with metals or alloys that are susceptible to corrosion. It is important to ensure that containers are kept tightly sealed, and the headspace of bulk storage tanks must be kept saturated with water vapor. This product must not be exposed to high temperatures, and it must be protected from frost.
Vinofan® BA 739 sa, has a shelf life of six months from manufacturing date at 10°C – 30°C, provided it is stored in accordance with the “Handling and Storage of polymers” brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request.
We would recommend treating this product with a biocide to prevent problems with microorganisms from occurring during storage and processing. Further details are given in our leaflet on “The handling and storage of polymer dispersions”.

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Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

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