



Acronal[®] 500 D

Polymer Dispersions for Paper

Product description Binder for coating paper and board.

Chemical nature Aqueous, anionic dispersion of a copolymer of n-butylacrylate and vinyl-acetate. This product does not contain any plasticizers or solvents

Low-temperature stability: Not resistant to frost

Properties

Physical form Liquid, Dispersion

Technical data

(not supply specification)

Solid content	DIN EN ISO 3251	~ 50 %
pH value	DIN EN 976	3.5 – 4.7
App.-viscosity	DIN EN ISO 2555	45 – 100 mPa·s
Particle size		~ 0.2 µm
MFFT		< 1 °C
Density		~1.06 g/cm ³

Application

Fields of Application	Acronal® 500 D is a binder for coating paper and board. It is mainly used to coat fine art paper, gravure printing paper and board.
Formulation guideline	The pH of pigment slurries should be in the neutral-to-alkaline range before Acronal® 500 D is added. The dispersion should not be subjected to excessive shear, and care should be taken to avoid air being entrained. We would recommend using rotary displacement pumps for coating colours prepared with Acronal® 500 D. All pipelines and equipment used to prepare pigment slurries should be flushed thoroughly with cold water immediately after shutting down the coater. Paper coaters have to carry out their own trials when developing products that contain Acronal® 500 D. Acronal® 500 D is compatible with all the other substances conventionally used in coating colours, provided it is used properly. Substances with a pH of less than 5 cause Acronal® 500 D to undergo an increase in viscosity. Its compatibility with other ingredients, its stability during coating and its effect on the ability of coatings to adhere to different substrates, etc., are affected by a variety of factors which are too numerous for us to take into account in our own trials.

Storage

The air in the headspace of bulk storage tanks must be kept saturated with water vapour at all times. This product must not be allowed to come into contact with bare iron or with copper and its alloys. Customers interested in purchasing this product in bulk should consult our leaflet on "The handling and storage of polymer dispersions".

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

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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