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Please file this leaflet in your "Paper Coating" binder,
Section 4

Sterocoll® FD

**Thickener for coating colours applied to paper and board that
conforms to food-contact legislation**



distribuito da:
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**Chemical nature**

Aqueous, anionic dispersion of a copolymer of ethyl acrylate and carboxylic acids. This product does not contain any plasticizers or solvents.

Physical form

Aqueous dispersion

Storage

Sterocoll® FD has a shelf life of at least six months in tightly sealed containers if it is stored in a cool place and protected from frost. We would recommend briefly stirring the contents of drums before use if they have been left to stand for any substantial length of time.

Customers interested in purchasing this product in bulk should consult our leaflet on "The handling and storage of polymer dispersions".

Properties**Product specification^{1), 2)}**

Solids content, ISO 3251, T.2-D, 1 g, 140 °C, 30 min.	approx. 25%
Apparent viscosity, ISO 2555, Brookfield RVT, 23 °C, Spindle 1, 100 rpm	approx. 20 mPa.s
pH, ISO 976	approx. 2.7

Other properties¹⁾

Density	approx. 1.05 g/cm ³
Solubility	Soluble in alkalis
Alkali required for a solution with pH 7.5 (expressed as solid NaOH as a proportion of total solids)	approx. 18 %
Low-temperature stability	Not resistant to frost

¹⁾ The above figures are approximate.

²⁾ A detailed specification is available on request.

Compatibility

Sterocoll® FD is compatible with the other substances conventionally used in coating colours, provided it is used properly, but it may be advisable to perform tests in special cases.

Applications

Sterocoll® FD is a synthetic thickener for use in coating colours applied to paper and board. It is used to increase the viscosity and water retention of coating colours and to improve their runnability. Its composition is such that it is a particularly appropriate choice for coated paper and board that is intended for food-packaging applications.

Processing

Sterocoll® FD is easy to stir into coating colours at the end of the mixing process, when the pH of the coating colour is alkaline.

If it is to be applied in the form of a solution, it first of all needs to be diluted down to a solids content of less than 4 %. The pH then has to be increased to > 7.5 in order to allow the polymer to dissolve.

Sterocoll® FD is normally employed at concentrations of between 0.5 % and 3 % (concentration as supplied, expressed as a proportion of the pigment).

Customers have to carry out their own trials when developing products that contain Sterocoll® FD. 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.



Safety

We know of no ill effects that could have resulted from using Sterocoll® FD for the purpose for which it is intended and from processing it in accordance with current practice.

According to the experience we have gained over many years and other information at our disposal, Sterocoll® FD does not exert any harmful effects on health, provided that it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheet are observed.

Airborne concentration

Sterocoll® FD contains technically unavoidable traces of volatile organic compounds. Further details are given in the Safety Data Sheet.

Labelling

According to all the data at our disposal, Sterocoll® FD is not a dangerous substance or preparation as defined in Annex I, No. 1.1, to the German *Gefahrstoffverordnung* and the current European Community guidelines on classification and labelling.

Food-contact applications

The composition of Sterocoll® FD conforms to the German health authorities' recommendations* on plastics dispersions and on paper and board for food-contact applications. Its composition also conforms to the requirements of United States Food and Drug Administration Regulations 21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty foods) and 21 CFR 176.180 (Components of paper and paperboard in contact with dry foods), according to current status.

Sterocoll® FD fulfils the criteria that have to be met to qualify for the Nordic Swan environmental label, according to their current status

There are no objections under German regulations** to Sterocoll® FD being used for toys or for consumer articles that come into contact with food, provided it is processed properly. Manufacturers are responsible for ensuring that their consumer goods conform to these regulations.

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. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

May 2005

* *Deutsches Bundesinstitut für Risikobewertung (BfR), Empfehlung XIV "Kunststoff-Dispersionen" and Empfehlung XXXVI, "Papiere, Kartons und Pappen für den Lebensmittelkontakt", according to current status.*

** *Lebensmittel- und Bedarfsgegenständegesetz, Paragraph 5, Section 1, No. 1 (Lebensmittelbedarfsgegenstände) and No. 5 (Spielwaren).*



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