

Acronal[®] S 813 E

Polymer Dispersions for Construction

Chemical nature Aqueous dispersion of a styrene-acrylicester copolymer (silanized). Acronal[®] S 813 is manufactured without the addition of APEO and formaldehyde.

Properties

Physical form Liquid, dispersion

Technical data

(not supply specification)

Solids content	DIN EN ISO 3251	~ 50 %
pH value	DIN ISO 976	7 – 8
Viscosity	DIN EN ISO 3219 (250 1/s, 23 °C)	100 – 250 mPa·s
MFFT		~ 28 °C

Application

Areas of application

Acronal® S 813 E is used to manufacture adhesives and basecoats with improved water resistance for ceramic coverings. Acronal® S 813 E can also be used as a base dispersion for primers with good adhesion to mineral and glazed surfaces.

Processing

Together with added fillers etc., Acronal® S 813 E is processed into adhesives in the usual mixing equipment.

To lower the film-forming temperature, a film-forming auxiliary such as Solvenon® TPnB may be used; the added quantity is generally approx. 4 – 6 % in relation to polymer dispersion Solvenon® TPnB displays a good interaction with Acronal® S 813 E.

The use of a mixture of quartzitic and carbonate-containing fillers leads to bonds with good resistance to water.

The open time after application of the adhesive can be adjusted through the use of additives like, for example, hydroxyethyl cellulose.

Standard commercial antifoams (e. g. FoamStar® PB 2706) can be used to suppress foaming.

In general it is sufficient to add 0.1 – 0.2 % antifoam in relation to the adhesive mixture. To improve the degree of dispersion of the fillers in highly filled formulations, Dispex® CX 4320 has shown a good effect in small quantities of approx. 0.05 – 0.1 % in relation to the adhesive mixture.

We recommend adding preservatives to adhesives that contain Acronal® S 813 E to protect them from microbial attack. The suitability of such additives must be determined and monitored in trials.

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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