

Styrofan[®] 5517 F

Polymer Dispersions for Construction

Chemical nature Aqueous, anionic dispersion of a copolymer of styrene and butadiene.
Styrofan[®] 5517 F is manufactured without the addition of APEO, formaldehyde and butadiene.

Properties

Technical data (not supply specification)	Solids content	DIN EN ISO 3251	~ 50 %
	pH value	DIN ISO 976	6 – 7
	Viscosity	DIN EN ISO 2555	150– 400 mPa·s
	Glass transition temperature		~ 5 °C

Application

Application area

Due to its low content of volatile organic compounds (VOCs) Styrofan® 5517 F is suitable for the manufacture of low-emission building products. No solvents are needed for film formation.

The polymer film of Styrofan® 5517 F is characterized by its high cohesion, flexibility and resistance to water.

With Styrofan® 5517 F it is possible to formulate universal primer for absorbent and non-absorbent substrates. The fine particles of the dispersion result in deep penetration in porous substrates. The low water absorbency of the dispersion film makes it possible to seal the surface effectively. At the same time, the high pigment binding power of Styrofan® 5517 F stabilizes dusty surfaces. The high inherent strength of the dispersion film has a very good adhesion-promoting effect.

Other typical uses are paste-type tile adhesives (D1)

Processing

Styrofan® 5517 F can easily be incorporated in formulations with all standard mineral fillers if there is a high pigment volume concentration (PVC). In this connection, the flexible nature of the dried formulations is retained up to a PVC of about 40 %.

If required, the stability of highly filled formulations can be ensured with small quantities of dispersants such as Dispex® CX 4320.

The viscosity level can be adjusted with cellulose ethers and polyacrylates such as Rheovis® AS 1125 or Rheovis® HS 1169. Standard commercial antifoams such as FoamStar® PB 2706 can be used to suppress foaming.

Although Styrofan® 5517 F is protected against microbial attack, preservatives must still be added to the finished products to ensure consistent quality even after a long time in storage.

Regarding the proposed formulation, the compatibility and effectiveness of the various constituents used should be checked out in appropriate preliminary tests.

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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