Styrofan® D 422

Polymer Dispersions for Construction

Product description

Owing to its wide range of properties. including high elasticity, good pigmentability, adhesion to a wide variety of substrates, very low water absorbency and the forming of a film that acts as a barrier to water vapor. Styrofan® D 422 is especially suitable for the manufacture of protective coatings that form a moisture barrier (waterproofing of wet rooms). Highly effective vapor barrier coatings can be produced in both filled and unfilled formulations.

Styrofan® D 422 is also suitable for the manufacture of products that act as a barrier to evaporation on the surface of fresh concrete (curing compounds).

Chemical nature

Aqueous dispersion of a copolymer of 1,3-butadiene and styrene which contains carboxyl groups

Properties

Physical form

Liquid

Technical data
(not supply specification)

Solid content	DIN EN ISO 3251	49.0 – 51.0 %
pH value	DIN ISO 976	7.3 – 8.3
Viscosity, dynamic	DIN EN ISO 3219 (23 °C, 100 1/s)	30 – 150 mPa.s
Glass transition temperature (Tg)		~ -7 °C
MFFT	DIN ISO 2115	~ 1 °C
Initial melting point[1]		≤ 20 °C

[1] According to Commission Regulation (EU) 2023/2055 of 25 September 2023 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards synthetic polymer microparticles.
The initial melting point was determined according to the position paper of the European Polymer Dispersion and Latex Association (EPDLA's position paper on polymer dispersions, redispersible polymer powders made thereof and synthetic polymer microparticles) from December 2024 and the method described therein.

Application

Processing

Standard commercial antifoams can be used to suppress foaming. In general it is sufficient to add 0.3 – 0,5 % e.g. FoamStar® PB 2706 in relation to the quantity of coating material. The amount required must be determined in tests.

To ensure optimum filler compatibility, the dispersion should be stabilized with a sufficient quantity of dispersing agent e. g. Dispex® AA 4135 or Dispex® CX 4320. We recommend adding preservatives to coating materials that contain Styrofan® D 422 to protect them from microbial attack. The suitability and compatibility of such additives must be determined and monitored in 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

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