Technical Data Sheet

LIPATON SB 5843

LIPATON SB 5843 is a ready-for-use aqueous dispersion of a styrene-butadiene copolymer with high stability against electrolytes. It contains an APEO free anionic/nonionic emulsifier system and is free from film forming aids, solvents, plasticizers, and ammonia. LIPATON SB 5843 contains a special defoamer to reduce the air content in cement mortars.

For further information regarding this product please refer to:
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Property	Value	Unit	Method*
Solids Content	48.5	%	ISO 3251
pH Value	7.5		ISO 976
Viscosity	30	mPas	ISO 3219
Glass Transition Temperature	- 5	°C	
Density	1.01	g/cm³	
Mean Particle Size	0.15	µm	
Minimum Film-Forming Temperature	0	°C	
Surface Tension	30	mN/m	
Tensile Strength	6	N/mm²	
Elongation at Break	1000	%	

* internal method based upon the specified norm

Application Advice

LIPATON SB 5843 is used in combination with cement, lime, gypsum, etc. Addition of LIPATON SB 5843 improves workability, wet adhesion and plasticity of fresh mortars. The dispersion has a strongly liquefying effect and reduces the water requirement at the same mortar consistency. LIPATON SB 5843 improves following end properties: flexural strength (up to 50 %), adhesive strength, abrasion / water / chemical / freeze/thaw resistance and shrink/swell behaviour. LIPATON SB 5843 has extremely good resistance to saponification, by which long-term stability in the strongly alkaline region even under moist conditions is secured. The dispersion has no corrosion promoting action on steel reinforcements and is film forming above + 3 °C. Additions of film forming agents or plasticizers are therefore not required. LIPATON SB 5843 is used in floor screeds, levelling compounds, adhesive-bonded joints, sealers/primers, repair mortars for concrete restoration, cement-based anticorrosion paints, gypsum-based stoppers/fillers, and building adhesives. Owing to the limited uv-stability of styrene-butadiene copolymers surface chalking can occur. This behaviour is identical with unmodified mortars. In case of higher demands concerning optical properties of surfaces, PLEXTOL D 509 is recommended. Addition of 10 - 50 % by weight of LIPATON SB 5843 - related to the cement content - is recommended for the improvement of mortars.

Processing

LIPATON SB 5843 is preserved against bacterial and fungal attack. In the manufacture of finished products, the material has to be retreated, as usual, with suitable biocides to give enhanced preservation.

Shipping and Storage

LIPATON SB 5843 is supplied in road tankers, in 200kg plastic drums with narrow mouth screw cap, in plastics drums secured by a lid with clamping ring, or in palletized bulk containers. LIPATON SB 5843 has to be stored protected from frost, direct sunlight, and, as far as possible, below 40 °C. Storage at temperatures between + 5 and + 30 °C is recommendable. LIPATON SB 5843 contains a preservative to counter microbial attack during transportation. To protect it against germination during subsequent storage, absolutely stringent plant hygiene and, under certain circumstances, the addition of suitable preservatives will be necessary. Care must be taken to ensure that drums and storage containers are tightly closed. During processing, storage and transport of the product contact with metals unprotected against corrosion (likewise non ferrous metals) has to be avoided. When stored correctly LIPATON SB 5843 has a storage life of 12 months from date of delivery.

Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.

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