

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:

Thomas Fachinger

Tel: +49(0)6181-9880094

eMail: [thomas.fachinger@synthomer.com](mailto:thomas.fachinger@synthomer.com)

Property	Typical Value	Unit	Method <sup>1</sup>
Solids Content	48.5	%	DIN EN ISO 3251
pH Value	7.5		DIN ISO 976
Viscosity	30	mPas	DIN EN ISO 3219
Glass Transition Temperature	- 5	°C	DIN EN ISO 11357-2
Minimum Film-Forming Temperature	0	°C	DIN ISO 2115
Density	1.01	g/cm <sup>3</sup>	DIN 51757

<sup>1</sup> 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.

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

Store at an even temperature of between +5°C and +35°C avoiding frost and direct sunlight. Stir product before use. If stored according to these conditions and in the original unopened containers, the dispersion will be stable for 12 months following delivery. Product should be used as soon as possible after opening. During processing, storage and transport, avoid any contact with metals (including non-ferrous metals) which are not protected against corrosion.

Detailed information is available on request.

## Product Safety

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