



Enhances performance in cement and gypsum-based mortars

Today's mortar markets demand more than strength alone. Applicators are under pressure to deliver faster, more reliable results with materials that are easy to place, adapt well to varying substrates, and perform consistently under demanding jobsite conditions.

LIPATON™ SB 5843 is a high-performance styrene-butadiene polymer dispersion designed for demanding cementitious systems. It improves the workability and plasticity of fresh mortars while providing a strongly liquefying effect that reduces water demand at unchanged mortar consistency. The product enhances wet adhesion and delivers significant improvements in flexural and adhesive strength, as well as abrasion, water, chemical, and freeze/thaw resistance. Its excellent saponification resistance ensures long-term stability in alkaline environments without the need for solvents, plasticizers, or film-forming aids.

In repair mortars for concrete restoration, **LIPATON™ SB 5843** delivers the trowability to the mortar mix that applicators rely on. The binder improves mortar plasticity supporting smooth, controlled placement and finishing, even on demanding surfaces, and enhances mortar wet adhesion promoting strong bonding to existing concrete substrates. The binder does not promote corrosion on steel reinforcements.

Beyond repair mortars, **LIPATON™ SB 5843** adds value across a wide range of construction applications. It is suitable for floor screeds, self-levelling compounds (SLU), ceramic tile adhesives, grouts, sealers, primers, and gypsum-based fillers, where reliable workability and durability are essential. The binder is already used in representative products in both the European and US markets, demonstrating its proven suitability for enhancing performance across diverse cementitious and gypsum formulations.

Property

LIPATON™ SB 5843

Chemistry	Carboxylated Styrene Butadiene
Solids Content in %	48.5
pH value	7.5
Viscosity in mPa·s	30
Tg in °C	-5

Features

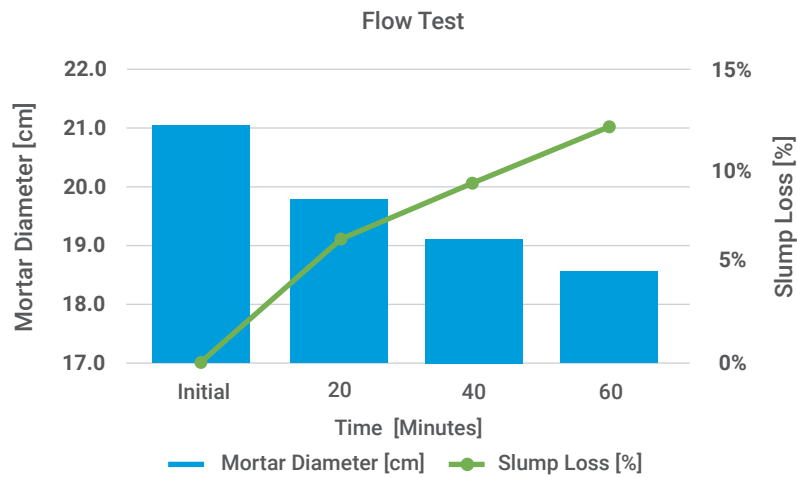
- Good trowability
- Workability and plasticity
- Strong wet adhesion
- Strong liquefying effect
- Resistance to saponification

Applications

- Repair mortar and renders
- Cement and gypsum-based system
- Ceramic tile adhesives, grout, sealers and primers
- Floor screeds and self-levelling compounds (SLU)

Performance Comparison

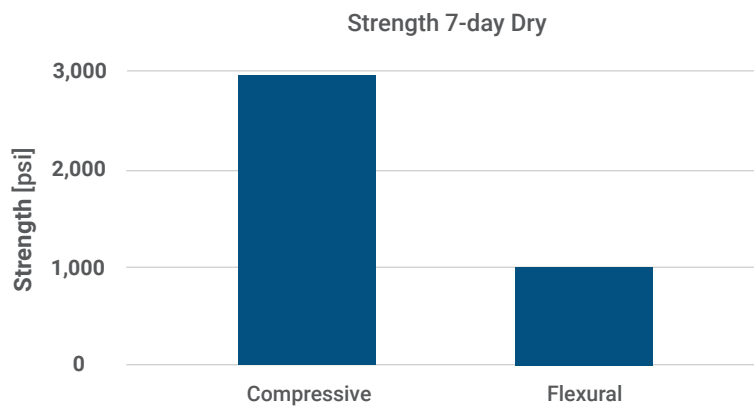
Workability Flow Test



Based on Synthomer US formulation

The flow test results demonstrate that **LIPATON™ SB 5843** effectively enhances mortar workability by a stable and balance flow over time and limiting flow loss even after 60 minutes, indicating excellent workability retention.

Compressive and Flexural Strength



Based on Synthomer US formulation

Strength testing confirms that **LIPATON™ SB 5843** significantly reinforces the mortar, delivering high mechanical performance after 7 days of drying.

Guide Formulation of Cement Mortar

Raw Material % By Weight

Raw Material	% By Weight
Sand	64.6%
Cement	23.5%
LIPATON™ SB 5843	2.6%
Water	9.4%