

LAPONITE-SL 25

Rheology additive based on synthetic phyllosilicate for aqueous systems to improve the rheological properties in the low shear range.

Product data

Composition

Synthetic (modified) phyllosilicate

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C):	1.30 g/ml
pH value:	8–10
Non-volatile matter (30 min, 125 °C):	23.5 %
Solvents:	water
Appearance:	free-flowing, translucent liquid dispersion

Storage and transportation

LAPONITE-SL 25 should be stored under dry, cool conditions. The low viscosity liquid dispersion of LAPONITE-SL 25 can show syneresis during prolonged storage. It should be stirred until homogeneous before use.

Applications

Coatings industry

Special features and benefits

LAPONITE-SL 25 increases viscosity in the low shear range with a low impact in the high shear range. It improves the processability and storage stability of clear, pigmented, and matted Do-it-yourself (DIY) aqueous coatings as well as industrially applied aqueous coatings. Furthermore, LAPONITE-SL 25 is highly effective in preventing the settling of pigments, extenders, matting agents, or other solids used in aqueous coating systems. It is a liquid dispersion of a synthetic layered silicate modified with a patented dispersing agent. Upon addition to formulations containing components such as resins, surfactants, or pigments, highly thixotropic gels are formed rapidly.

Recommended use

Architectural coatings	■
Wood and furniture coatings	■
General industrial coatings	■
Floor coatings	■

■ especially recommended □ recommended

Recommended levels

0.3–2.0 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

LAPONITE-SL 25 is supplied ready for use and may be added to formulations at any point during manufacture.

Household, industrial and institutional applications**Special features and benefits**

LAPONITE-SL 25 is a rheology additive that produces slight thixotropic flow behavior. It is used in aqueous systems and can be used universally as an anti-settling agent to prevent the settling of abrasives and other particles without thickening. Cleaners with LAPONITE-SL 25 are easy to use and can be applied by spraying. Use of the additive improves adhesion to vertical surfaces, whereby the cleaning effect is improved due to the longer exposure time. LAPONITE-SL 25 is particularly suitable for aqueous cleaners and care products in the pH range between 6 and 12.

Recommended use

Floor care products	<input type="checkbox"/>
Vehicle cleaners and care products	<input checked="" type="checkbox"/>
Cleaners for living spaces	<input checked="" type="checkbox"/>
Cleaners for the kitchen	<input checked="" type="checkbox"/>
Cleaners for wet rooms	<input checked="" type="checkbox"/>
Detergents	<input checked="" type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended levels

0.5–10.0 % additive (as supplied) based upon total formulation, depending on the properties of the formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

LAPONITE-SL 25 is supplied ready for use and may be added to formulations at any point during manufacture.

Adhesives and sealants

Special features and benefits

LAPONITE-SL 25 increases viscosity in the low shear range with a low impact in the high shear range. It improves the processability and storage stability of aqueous adhesive and sealant systems. Furthermore, LAPONITE-SL 25 is highly effective in preventing the settling of fillers and pigments in aqueous adhesive and sealant systems.

Recommended levels

0.3–2.0 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

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This issue replaces all previous versions.