

## LAVIOSA VISCOGEL™ S7C

LAVIOSA VISCOGEL™ S7C is a new high performing, highly effective rheological additive for solvent-borne systems of medium to high polarity. In a typical coating system (paints and printing inks), LAVIOSA VISCOGEL™ S7C gives thixotropic effect, sag control, excellent levelling and prevents pigments from long-term storage settling.

The nature of LAVIOSA VISCOGEL™ S7C is a highly purified bentonite clay, organically modified with a quaternary alkylammonium compound.

### CHEMICAL AND PHYSICAL DATA

COMPOSITION	COLOUR	FORM	BULK DENSITY	MOISTURE
Smectite clay with quaternary alkylammonium salt	Whitish	Free flowing powder	0.4 – 0.6 g/cm <sup>3</sup>	3 %

### APPLICATIONS

LAVIOSA VISCOGEL™ S7C is used in a wide range of cosmetic applications: manufacture of lipsticks, nail lacquers and dyes. It shows particularly good performance in solvents like aromatics, cellosolve, acetates, ketones, glycols and alcohols and resins like epoxies, nitrocellulose, polyacrylates, polyesters, polyurethanes and polyvinyls.

### INCORPORATION

LAVIOSA VISCOGEL™ S7C belongs to the conventional type of organoclays group, which requires mechanical energy, shear forces applied with a good dispersion equipment, and a chemical (polar) activator to reach the proper level of delamination of the organobentonite platelet stacks.

While heat is not essential in most cases, processing temperatures above 20°C are preferred. Suitable polar activators are low molecular weight alcohol. Propylene carbonate can also be used.

Tab: Activators' dosage (based on LAVIOSA VISCOGEL™ weight)

METHANOL/H <sub>2</sub> O (95:5)	ETHANOL/H <sub>2</sub> O (95:5)	ACETONE/H <sub>2</sub> O (95:5)	PROPYLENE CARBONATE/H <sub>2</sub> O (95:5)	PROPYLENE CARBONATE
33%	50%	60%	33%	33%

It is always recommended to determine the proper level of addition by experiment. Either defect or excess of chemical activator would result in poorer viscosity development.

Several methods can be used to incorporate LAVIOSA VISCOGEL™ S7C:

1. The "direct add" technique. LAVIOSA VISCOGEL™ S7C is added directly in powder form to the solvent/resin mix, before pigment addition and milling.
2. The "pregel" technique. LAVIOSA VISCOGEL™ S7C is pregelled as described above in a suitable solvent at a 5-10 % concentration, with a polar activator. The activated gel is then added to the binder solution and stirred. After pigment addition the mix is finally milled.

### DOSAGE

Level of addition strongly depends on the type of system and on the degree of thickening or other properties desired. For house and industrial paints, typical levels are between 0.2 % and 0.6 % of LAVIOSA VISCOGEL™

S7C. For primers and printing inks, higher levels are required (0.5-1.0 %). For strong antisagging properties, up to 3.0 % can be used.

#### **STORAGE STABILITY AND PACKING**

Product do not deteriorate in a significant way in a 36 months period. Storage is advisable in a dry, sheltered place in closed bags. Packing is 20 Kg net paper bags on wood pallets of 960 – 1,040 Kg each.

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