

## LAVIOSA VISCOGEL™ SD

LAVIOSA VISCOGEL™ SD is a new high performing, highly effective rheological additive for solvent-borne systems of low to medium polarity. that provides thixotropic effect, sag control, excellent levelling and prevents pigments from long-term storage settling.

The nature of LAVIOSA VISCOGEL™ SD is a highly purified bentonite clay, organically modified with a quaternary alkylammonium compound. Unlike most of the other conventional organoclays, LAVIOSA VISCOGEL™ SD is self-activating and easily dispersible, hence simple and convenient to use.

### Tab: 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™ SD is used in a wide range of manufacturing processes for architectural paints, industrial finishes, anti-corrosive paints, road marking paints, primers, bituminous undercoates, wood stains, to give the desired rheological control to the system. It provides superior anti-settling anti anti-sagging and it shows also a very high dispersibility.

LAVIOSA VISCOGEL™ SD shows particularly good performance in aliphatic mineral spirits and aromatics. Low polarity binders like alkyds and terpenes, petroleum derivatives and styrene-butadiene rubbers are also compatible with LAVIOSA VISCOGEL™ SD.

### INCORPORATION

LAVIOSA VISCOGEL™ SD belongs to the unconventional type of organoclays group, being an easy-to-disperse, self-activating, organobentonite. LAVIOSA VISCOGEL™ SD does not require neither strong mechanical energy to disperse nor a chemical (polar) activator to reach the proper level of delamination of the organobentonite platelet stacks.

LAVIOSA VISCOGEL™ SD can be added at any point in the paint manufacturing process and can be even used in post-addition to correct the final viscosity of a certain batch.

Low temperature might be a cause of slow dispersion if LAVIOSA VISCOGEL™ SD is added under low shear.



LAVIOSA VISCOGEL™ SD does not need to be pregelled to develop its full rheological properties. If however a pregel is convenient to be produced, this won't show the same high viscosity of a conventional organoclay activated gel. LAVIOSA VISCOGEL™ SD is

not effective as a gellant in a solvent alone, but it provides the same rheological properties when added to the complete system.

### **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 0.8 % of LAVIOSA VISCOGEL™ SD. For primers and printing inks, higher levels are required (0.5-1.0 %). For strong antisagging properties, up to 3.0 % can be used.

Compared to other products of its type it is also proved to be more versatile in terms of compatibility to a wide range of formulations.

### **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 25 Kg net paper bags on wood pallets of 1,000 - 1,300 Kg each.

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