LAVIOSA
Advanced Mineral Solutions

Technical Data Sheet

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Industrial Additives Division
Coatings

LAVIOSA VISCOGEL™ S8

LAVIOSA VISCOGEL™ S8 is a new high effective high performing rheological additive for solvent-borne systems of low to medium polarity, that gives excellent thixotropic effect, sag control, film thicknesses, levelling and prevents pigments from long-term storage settling.
The nature of LAVIOSA VISCOGEL™ S8 is a high purified bentonite clay, organically modified with a quaternary alkylammonium compound.

CHEMICAL AND PHYSICAL DATA

COMPOSITION	COLOUR	FORM	BULK DENSITY	MOISTURE
Smectite clay with quaternary alkilammonium salt	Whitish	Free flowing powder	0.4 – 0.6 g/cm^3	3 %

APPLICATIONS
LAVIOSA VISCOGEL™ S8 is used in a wide range of manufacturing processes of industrial paints, anti-corrosive paints, automotive finishes primers, coil coatings, architectural paints, primers, cosmetics, adhesive and mastic compound, to give the desired rheological control to the system. It shows particularly good performance in aromatic and alyphatic solvents and resins like alkyds, epoxy esters, polyacrylics, polyesters and polyurethanes.

INCORPORATION
LAVIOSA VISCOGEL™ S8 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.

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

METHANOL/H_2O (95:5)	ETHANOL/H_2O (95:5)	ACETONE/H_2O (95:5)	PROPYLENE CARBONATE/H_2O (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™ S8:
1. The "direct add" technique. LAVIOSA VISCOGEL™ S8 is added directly in powder form to the solvent/resin mix, before pigment addition and milling. Surfactants have to be added the last.
2. The "pregel" technique. LAVIOSA VISCOGEL™ S8 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™ S8. For primers and printing inks, higher levels are required (0.5-1.0 %). For strong antisagging properties, up to 3.0 % can be used.

Laviosa Chimica Mineraria SpA - Italy
Laviosa Sanayi ve Ticaret Ltd Sti - Turkey
Laviosa France sas - France
Laviosa India Pvt Ltd - India

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 1,000 - 1,400 Kg each.