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LAVIOSA VISCOGEL™ ED

Description

LAVIOSA VISCOGEL™ ED is a 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™ ED is a bentonite clay, organically modified with a quaternary alkylammonium compound. Unlike most of the other conventional organoclays, LAVIOSA VISCOGEL™ ED 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 alkilammonium salt	Pale cream	Free flowing powder	0.4 – 0.6 g/cm^3	3 %

Applications

LAVIOSA VISCOGEL™ ED is used in a wide range of manufacturing processes for architectural paints, industrial finishes, anti-corrosive paints, road marking paints, primers, bitouminous undercoates, wood stains, to give the desired rheological control to the system.
LAVIOSA VISCOGEL™ ED 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™ ED.

Incorporation

LAVIOSA VISCOGEL™ ED belongs to the unconventional type of organoclays group, being an easy-to-disperse, self-activating, organobentonite. LAVIOSA VISCOGEL™ ED 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™ ED 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™ ED is added under low shear.
LAVIOSA VISCOGEL™ ED 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™ ED is not effective as a gellant in a solvent alone, but it provides the same rheological properties when added to the complete system.

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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™ ED. 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 1000 - 1,400 Kg each.

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