

## LAVIOSA VISCOGEL™ XD2

### Description

LAVIOSA VISCOGEL™ XD2 is a new high performing, highly effective rheological additive for solvent-borne systems of moderate to high polarity. that provides thixotropic effect, sag control, excellent levelling and prevents pigments from long-term storage settling.

The nature of LAVIOSA VISCOGEL™ XD2 is a highly purified bentonite clay, organically modified with a quaternary alkylammonium compound. Unlike most of the other conventional organoclays, LAVIOSA VISCOGEL™ XD2 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™ XD2 is used in a wide range of manufacturing processes for anti-corrosive paints, antifouling paints, industrial finishes, foundry mould paints, printing inks, cosmetics, adhesives and mastics 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™ XD2. It shows particularly good performance in solvents like aromatics, cellosolve, acetates, ketones, glycols and alcohols and resins like epoxies, nitrocellulose, polyacrylates, polyester, polyurethanes and polyvinyls

### Incorporation

LAVIOSA VISCOGEL™ XD2 belongs to the unconventional type of organoclays

group, being an easy-to-disperse, self-activating, organobentonite. LAVIOSA VISCOGEL™ XD2 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™ XD2 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™ XD2 is added under low shear.

LAVIOSA VISCOGEL™ XD2 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™ XD2 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™ XD2. 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 15 Kg net paper bags on wood pallets of 600 - 900 Kg each.

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