

LAVIOSA ARGIMEL® XD

Rheological Additive for Solvent Borne Paint and Coatings

General Information

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

The nature of **LAVIOSA ARGIMEL® XD** is a highly purified bentonite clay, organically modified with a quaternary alkylammonium compound able to develop lipophilic behavior in organic media.

LAVIOSA ARGIMEL® XD is self-activating and easily dispersible, hence simple, and convenient to use.

Table 1 Chemical-physical properties

Properties	Description
Composition	organically modified smectite
Physical form	white fine powder
Bulk density	0.4-0.6%
Moisture	3%
Density	1,4 g/cm ³

Applications

LAVIOSA ARGIMEL® XD is used in a wide range of manufacturing processes, architectural paints, industrial finishes, anti-corrosive paints, road marking paints, primers, bituminous systems, 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 ARGIMEL® XD 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 ARGIMEL® XD**.

Incorporation

LAVIOSA ARGIMEL® XD belongs to the unconventional type of self-activating organoclays. It does not require neither strong mechanical energy to disperse nor a chemical (polar) activator to reach the proper level of delamination of the organo-bentonite platelet stacks.





LAVIOSA ARGIMEL® XD 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 ARGIMEL® XD** is added under low shear.

Pregel formation it's not needed to employ **LAVIOSA ARGIMEL® XD** and in order to develop its full rheological properties. If, however, a pregel is convenient for production sites that has this step in their daily routine, this won't show the same high viscosity of a conventional organoclay activated gel. **LAVIOSA ARGIMEL® XD** 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 ARGIMEL® XD**. For primers and printing inks, higher levels are required (0.5-1.0%). For strong anti-sagging 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

Storage is advisable in a dry, sheltered place in closed bags. **LAVIOSA ARGIMEL® XD** rheological additive is available in 25 kg net paper bags. **LAVIOSA ARGIMEL® XD** has a shelf life of 3 (three) years from date of manufacture.

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