

LAVIOSA ARGIMEL® XD2

Rheological Additive for Solvent Borne Paint and Coatings

General Information

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

The nature of **LAVIOSA ARGIMEL® XD2** is a highly purified bentonite clay, organically modified with a quaternary alkylammonium compound. Unlike most of the other conventional organoclays, **LAVIOSA ARGIMEL® XD2** 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%

Applications

LAVIOSA ARGIMEL® XD2 is used in a wide range of manufacturing processes,

anti-corrosive paints, industrial finishes, anti-fouling paints, printing inks, cosmetics, adhesives and mastics to give the desired rheological control to the system. It provides superior anti-settling and anti-sagging properties. It also shows a very high dispersibility. **LAVIOSA ARGIMEL® XD2** shows particularly good performance in aromatics, cellosolve, acetates, ketones, glycols, alcohols and resins like epoxies, nitrocellulose, polyacrylates, polyesters, polyurethanes and polyvinyls.

Incorporation

LAVIOSA ARGIMEL® XD2 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 platelets. **LAVIOSA ARGIMEL® 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 ARGIMEL® XD2** is added under low shear.

LAVIOSA ARGIMEL® XD2 does not need to be formulated in a pregel to develop its full rheological properties. If however a pregel is convenient to the production routine, this won't show the same high viscosity of a conventional organoclay activated gel. **LAVIOSA ARGIMEL® 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 ARGIMEL® XD2**. 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® XD2** rheological additive is available in 20 kg net paper bags. **LAVIOSA ARGIMEL® XD2** has a shelf life of 3 (three) years from date of manufacture.

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