



VISCOGEL[®] ED2

VISCOGEL[®] ED2 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 **VISCOGEL[®] ED2** is a highly purified bentonite clay, organically modified with a quaternary alkylammonium compound. Unlike most of the other conventional organoclays, **VISCOGEL[®] ED2** is self-activating and easily dispersible, hence simple and convenient to use.

CHEMICAL AND PHYSICAL DATA

COMPOSITION	COLOUR	FORM	DENSITY	MOISTURE
Smectite clay with quaternary alkylammonium salt	Whitish	Free flowing powder	1.5 g/cm ³	3 %

APPLICATIONS

VISCOGEL[®] ED2 is used in a wide range of manufacturing processes for architectural paints, industrial finishes, anti-corrosive paints, adhesive, maintenance coatings, paint removers, 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.

VISCOGEL[®] ED2 shows particularly good performance in aliphatic mineral spirits and aromatics. Moderate polarity binders like esters, glycol esters and alcohols are also compatible with **VISCOGEL[®] ED2**.

INCORPORATION

VISCOGEL[®] ED2 belongs to the unconventional type of organoclays group, being an easy-to-disperse, self-activating, organobentonite. **VISCOGEL[®] ED2** 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.

VISCOGEL[®] ED2 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 **VISCOGEL[®] ED2** is added under low shear.

VISCOGEL[®] ED2 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. **VISCOGEL[®] ED2** 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 **VISCOGEL[®] ED2**. 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 720 - 960 Kg each.

The information given in this bulletin is based on the state of our knowledge at the date of publication and are believed to be accurate, but do not constitute any engagement or warranty from our part. Any conclusion and recommendation is made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.



BENTEC S.p.A.

Società del gruppo Laviosa Minerals S.p.A.
I-57123 LIVORNO • Via Leonardo da Vinci, 21
Tel. (+39) 0586 434320 - Fax (+39) 0586 410852
www.bentec.it • E-mail: info@bentec.it

CHEMIA BRUGG

Chemia Brugg AG	Telefon	+41 (056) 460 62 60
GB Chemie	Telefax	+41 (056) 441 45 62
Aaraustrasse 51	Web	www.chemia.ch
CH-5200 Brugg	e-Mail	chemie@chemia.ch