



VISCOGEL® S8

VISCOGEL® S8 is a new high effective high performing rheological additive for solvent-borne systems of low to medium polarity, that gives excellent thixotropic effect, sag control, film thicknesses, levelling and prevents pigments from long-term storage settling.

The nature of VISCOGEL® S8 is a high purified bentonite clay, organically modified with a quaternary alkylammonium compound.

CHEMICAL AND PHYSICAL DATA

COMPOSITION	COLOUR	FORM	DENSITY	MOISTURE
Smectite clay with quaternary alkylammonium salt	Whitish	Free flowing powder	1.7 g/cm ³	3 %

APPLICATIONS

VISCOGEL® S8 is used in a wide range of manufacturing processes of industrial paints, anti-corrosive paints, automotive finishes primers, coil coatings, architectural paints, primers, cosmetics, adhesive and mastic compound, to give the desired rheological control to the system. It shows particularly good performance in aromatic and aliphatic solvents and resins like alkyds, epoxy esters, polyacrylics, polyesters and polyurethanes.

INCORPORATION

VISCOGEL® S8 belongs to the conventional type of organoclays group, which requires mechanical energy, shear forces applied with a good dispersion equipment, and a chemical (polar) activator to reach the proper level of delamination of the organobentonite platelet stacks.

Tab: Activators' dosage (based on VISCOGEL® weight)

METHANOL/H ₂ O (95:5)	ETHANOL/H ₂ O (95:5)	ACETONE/H ₂ O (95:5)	PROPYLENE CARBONATE/H ₂ O (95:5)	PROPYLENE CARBONATE
33%	50%	60%	33%	33%

It is always recommended to determine the proper level of addition by experiment. Either defect or excess of chemical activator would result in poorer viscosity development.

Several methods can be used to incorporate VISCOGEL® S8:

1. The "direct add" technique. VISCOGEL® S8 is added directly in powder form to the solvent/resin mix, before pigment addition and milling. Surfactants have to be added the last.
2. The "pregel" technique. VISCOGEL® S8 is pregelled as described above in a suitable solvent at a 5-10 % concentration, with a polar activator. The activated gel is then added to the binder solution and stirred. After pigment addition the mix is finally milled.

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 0.6 % of VISCOGEL® S8. For primers and printing inks, higher levels are required (0.5-1.0 %). For strong antisagging properties, up to 3.0 % can be used.

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 800 - 1,400 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