

## VISCOGEL<sup>®</sup> C8

### Description

**VISCOGEL<sup>®</sup> C8** is a rheological additive for solvent-borne systems of low to medium polarity, that gives thixotropic effect, sag control, excellent levelling and

prevents pigments from long-term storage settling.

The nature of **VISCOGEL<sup>®</sup> C8** is a bentonite clay, organically modified with a quaternary alkylammonium compound.

### Tab: CHEMICAL AND PHYSICAL DATA

COMPOSITION	COLOUR	FORM	DENSITY	MOISTURE
Smectite clay with quaternary alkylammonium salt	Pale cream	Free flowing powder	1.7 g/cm <sup>3</sup>	3 %

### Applications

**VISCOGEL<sup>®</sup> C8** is used in a wide range of manufacturing processes of industrial paints, anti-corrosive paints, automotive finishes primers, coil coatings, architectural paints, primers, cosmetics, 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<sup>®</sup> C8** 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<sup>®</sup>** weight)

METHANOL/H <sub>2</sub> O (95:5)	ETHANOL/H <sub>2</sub> O (95:5)	ACETONE/H <sub>2</sub> O (95:5)	PROPYLENE CARBONATE/H <sub>2</sub> 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<sup>®</sup> C8:

1. The “direct add” technique. VISCOGEL<sup>®</sup> C8 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<sup>®</sup> C8 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<sup>®</sup> C8. 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 1000 - 1,400 Kg each.

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