



RHEOLOGICAL ADDITIVE

Technical Data Sheet

CP-34

CP-34 is an organo clay (modified bentonite), designed especially for use in solvent based system. It can be used widely in solvents from low polarity to medium-high polarity.

Properties

Composition	Organic derivative of a montmorillonite clay
Appearance	Fine powder, light yellow
Moisture content (105°C, 2hr)	≤3.5%
Loss on ignition (1000°C)	28%-30%
Bulk density	0.53g/cm ³
Fineness (<74µm, %)	≥98%

Advantages

- High gelling efficiency
- Light color gel
- Produce reproducible thixotropic consistency over a wide temperature range
- Imparts particle suspension, preventing hard settling of pigment and fillers.
- Exerts strong film reinforcing action in organic binder systems.

Application

CP-34 is used in the following applications:

- Marine paint, Industrial paint, heavy-duty, anticorrosion paint such as bituminous coatings, polyester paints, Alkyd paints.
- Sealant
- Inks
- Grease
- Unsaturated polyester putty

Using

CP-34 disperses under high shear and requires a polar activator for best efficiency. Heat is not required to obtain good dispersion. Addition levels are typically in 0.2%~2.0%. Polar activator (95% Ethanol or 95% Methanol) is needed. Normally addition level of polar activator is recommended to be 40%~50% of CP-34 in weight. If in xylene system, addition level of polar activator is about 30%~40% of CP-34 in weight.

Pre-gel is made as below procedure.

1. Charge solvent to mill
2. Slowly add CP-34(6-10% by weight of total pregel) to mill under agitation.
3. Mix at high speed for 5 minutes.

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