



ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.
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BS-1C-B27 Rheology Modifier

GENERAL INFORMATION

BS-1C-B27 is an organophilic clay designed for use in medium to high polarity systems. BS-1C-B27 imparts excellent rheology, particle suspension, and pigment anti-settling.

ADVANTAGES

- ☆ Helps achieve proper balance of thixotropy and anti-sedimentation properties.
- ☆ Exerts strong film reinforcement properties in organic binder systems.

PHYSICAL PROPERTES	RECOMMENDED USE
Color/Form: Light white/Free-flowing powder	<ul style="list-style-type: none">• Marine coatings
Density: 1.7 g/cm ³	<ul style="list-style-type: none">• Lubricating greases
Moisture: ≤ 3.5%	<ul style="list-style-type: none">• Industrial decorative paints,
Fineness 200 mesh ≥98.0	<ul style="list-style-type: none">• Automotive primers
Bulk Density kg/cm ³ ≤380	<ul style="list-style-type: none">• Printing Inks
Loss on ignition (900 °C, %):31.0~35.0	<ul style="list-style-type: none">• Cosmetics
	<ul style="list-style-type: none">• PVC Plastisol

INCORPORATIONS

BS-1C-B27 belongs to the conventional type of organoclay group, which requires mechanical energy, shear forces applied with a goods dispersion equipment, and a chemical (polar) activator to reach the proper level of delamination of the organoclay platelet stacks.

Chemical Activator	
Methanol/H ₂ O	30%-50% based on dry weight of BS-1C-B27
Ethanol/H ₂ O (95/5)	40%-60% based on dry weight of BS-1C-B27
Propylene Carbonate	35%-55% based on dry weight of BS-1C-B27



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Acetone/H₂O

40%-60% based on dry weight of BS-1C-B27

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 BS-1C-B27

1. The "direct add" technique. BS-1C-B27 is added directly in powder form to the solvent/resin mix, before pigment addition and milling.
2. The "pregel" technique. BS-1C-B27 is pregelled as described above in a suitable solvent at a 5-10 % concentration, with or without a polar activator. The activated gel is then added to the binder solution and stirred. After pigment addition the mix is finally milled

RECOMMENDED LEVELS

BS-1C-B27 is typically used at levels of 0.5% - 1.5% by weight of the total system, depending upon the degree of thickening or other properties desired. Laboratory testing is recommended to determine optimal level.

HEALTH AND SAFETY DATA

Before handling this material, read the corresponding Safety Data Sheet (SDS) for safety, health and environmental data.

SHELF LIFE

BS-1C-B27 has a shelf life of at least two years from date of manufacture. Store in a cool dry place.

CERTIFICATIONS

ISO 9001 Quality System, ISO 14001 Environmental Management System, ISO 18001 Safety System

MANUFACTURER: ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.

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