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## **BS-1C-A7** **Rheology Modifier**

### **GENERAL INFORMATION**

BS-1C-A7 is an organoclay for solvent-based systems of medium-high polarity.

### **ADVANTAGES**

- ☆ High gelling efficiency over medium-high polarity organic liquids, especially in aromatic, alcohol, ketone, and the compounds of above.
- ☆ Produce reproducible thixotropic consistency over a wide temperature range.
- ☆ Imparts particle suspension, preventing hard settling of pigment and fillers.
- ☆ Exerts strong film reinforce action in organic binder systems.

<b>PHYSICAL PROPERTES</b>	<b>RECOMMENDED USE</b>	
Color/Form: Light yellow / Free flowing powder	<ul style="list-style-type: none"><li>• Acrylic paint</li><li>• Alkyd paint</li></ul>	<ul style="list-style-type: none"><li>• Marine paint</li><li>• Primer paint</li></ul>
Density: 1.7g/cm <sup>3</sup>	<ul style="list-style-type: none"><li>• Anti-Corrosion Paint</li></ul>	<ul style="list-style-type: none"><li>• Silica paint</li></ul>
Moisture: ≤3.5%	<ul style="list-style-type: none"><li>• Bituminous paint</li></ul>	<ul style="list-style-type: none"><li>• Solvent epoxy paint</li></ul>
Fineness: 95%Min thru 200 mesh	<ul style="list-style-type: none"><li>• Container paint</li></ul>	<ul style="list-style-type: none"><li>• Inks(mineral oil)</li><li>• Inks(Nitro)</li></ul>
Loss on Ignition: ≤40%	<ul style="list-style-type: none"><li>• Industrial paint</li></ul>	<ul style="list-style-type: none"><li>• Nitro lacquer</li></ul>

### **INCORPORATIONS**

BS-1C-A7 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.

<b>Chemical Activator</b>	
Methanol/H <sub>2</sub> O	30%-50% based on dry weight of BS-1C-A7
Ethanol/H <sub>2</sub> O (95/5)	40%-60% based on dry weight of BS-1C-A7
Propylene Carbonate	35%-55% based on dry weight of BS-1C-A7
Acetone/H <sub>2</sub> O	40%-60% based on dry weight of BS-1C-A7



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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-A7

1. The "direct add" technique. BS-1C-A7 is added directly in powder form to the solvent/resin mix, before pigment addition and milling.
2. The "pregel" technique. BS-1C-A7 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**

The amount of BS-1C-A7 rheology modifier required depends upon the type of organic system and the degree of thickening or other properties desired. Addition levels are typically between 0.2%-2.0% based on the total formulation weight.

### **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-A7 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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