



ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.
[Http://www.zjfenghong.com](http://www.zjfenghong.com) E-mail: Bentonite@zjfenghong.com
Tel: +86-571-63806068/63711876 Fax: +86-571-63751569/63806098
Add: Tangpu Developing Zone, Anji County, Zhejiang Province, China. P.C.313300

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BS-1C-D12

Rheology Modifier

GENERAL INFORMATION

BS-1C-D12 is a new type of composite organic clay with easy dispersion, dust-free feeding, and excellent easy dispersibility. It can be used in solvent-less or low-medium solvent system without activator and can be dispersed by high speed shear. It can provide strong pseudoplasticity. The viscosity at low shear is higher, with better anti-settling, and at high shear the viscosity decreases rapidly, providing better construction performance.

ADVANTAGES

- ☆ Easy to incorporate-no need for chemical activator.
- ☆ Particularly suitable for solventless epoxy system&low-medium polarity system
- ☆ Dust free addition
- ☆ Strong pseudoplasticity

PHYSICAL PROPERTES	RECOMMENDED USE
Composition: Amine-treated clay	<ul style="list-style-type: none">• Architectural paints(e.g.exterior wall paints, roof paints)
Color/Form:Pale yellow free flowing powder	<ul style="list-style-type: none">• Anti-corrosion paints (e.g.solventless epoxy)
Moisture: $\leq 10.0\%$	<ul style="list-style-type: none">• PVC plastisol
Fineness(passing 325mesh) ≥ 98.0	<ul style="list-style-type: none">• Adhesives&sealants
	<ul style="list-style-type: none">• Low polarity industrial cleaners

INCORPORATIONS

1) Direct addition method

When the mechanical mixing equipment has sufficient shear speed, or when the colloid mill is added, the following sequence of material addition is recommended.

- I) Resin/solvent.
- II) BS-1C-D12.
- III) Wetting/dispersing additives.



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IV) Pigment.

V) Filler.

Note: It is generally not recommended to add BS-1C-D12 after the wetting and dispersing additive, which may affect its dispersion effect. BS-1C-D12 conforms to the rules of rheology, and the additive will not be affected by the increase of grinding temperature.

2) Pre-gel method

When used in the system where aromatic or unsaturated polyester resin is the solvent, pre-gel with 10%-15% concentration is recommended (to have the condition of high speed dispersion). If the pre-gel needs to be pumped, then solvent or wetting agent can be used to adjust the viscosity. Alternatively, it can be added to the paint mixing stage, and sufficient shear force is required when adding.

If BS-1C-D12 is in a polar solvent not suitable for make pre-gel, then you can add a small amount of polar activator, the amount of activator is recommended to be 5-10% by weight of BS-1C-D12.

RECOMMENDED LEVELS

BS-1C-D12 is typically used at levels of 0.5% - 5.0% by weight of the 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-D12 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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