

BT-182

Ultra-Dispersible
Organophilic Bentonite
Rheological Additive
Technical Data Sheet

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1. Product Description

BT-182 is a specially modified organophilic bentonite rheological additive supplied as a light yellow powder.

It features ultra-dispersibility and high thixotropic efficiency. BT-182 is suitable for low, medium, and high polarity solvent systems. In medium to high polarity systems, it can be dispersed rapidly under high shear without the need for a polar activator. In low polarity systems, a small amount of activator is recommended to achieve optimal dispersion performance.

2. Typical Physical & Chemical Properties

Property	Specification
Appearance	Light yellow powder
Volatile content (105°C, 2h)	≤ 3.5 %
Particle size (<76 μm, 200 mesh)	≥ 95 %
Fineness (Hegman gauge, unground)	≤ 40 μm
Specific gravity	1.6 g/cm ³

The above values represent typical test results and do not constitute a guaranteed specification.

3. Key Features

- Ultra-dispersible performance
- High thixotropic efficiency
- Suitable for low, medium and high polarity systems
- No activator required in medium to high polarity systems
- Fine dispersion below 5 μm achievable in suitable systems
- Excellent anti-sag and anti-settling properties

- Can be added at any production stage

4. Recommended Solvent Systems

BT-182 performs effectively in:

- Epoxy coating systems
- Anti-corrosion coatings
- High-temperature greases
- Wood coatings
- Premium industrial coatings
- Printing inks

Compatible with:

- Low polarity solvent systems (with activator)
- Medium to high polarity solvent systems (activator-free)

5. Applications

Widely used as thickening and thixotropic agent in:

- Epoxy coatings
- Anti-corrosion paints
- High-temperature lubricating greases
- Wood coatings
- Premium paints
- Printing inks

Provides excellent rheological control, sag resistance, and suspension stability.

6. Incorporation Method

- Can be added at any stage of production
- High-speed shear or milling dispersion recommended
- In low polarity systems, add 20–30% polar activator (based on organoclay weight) if required
- In medium to high polarity systems, activator may not be necessary

7. Typical Dosage

For general coating applications:

0.2 – 1.5% by weight of total formulation, depending on rheological requirements.

8. Packaging

- Double-layer kraft paper bag with PE inner liner
- Valve paper bag available
- Net weight: 25 ± 0.25 kg
- Custom packaging available upon request

9. Storage & Shelf Life

- Store in dry and ventilated conditions
- Recommended storage temperature: 0–30°C
- Keep container tightly sealed
- Shelf life: 24 months

10. Safety Information

Please refer to the Safety Data Sheet (SDS) before handling. Avoid dust inhalation and use appropriate personal protective equipment.