

BT-381

Self-Activated Organophilic Bentonite
Rheological Additive

Technical Data Sheet

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1. Product Description

BT-381 is a self-activated organophilic bentonite rheological additive supplied as a white free-flowing powder.

It can be incorporated at any stage of the paint manufacturing process without the need for polar activators or pre-gel preparation. BT-381 offers easy dispersion and excellent rheological control in medium to low polarity solvent systems.

2. Typical Physical & Chemical Properties

Property	Specification
Appearance	White free-flowing powder
Volatile content (105°C, 2h)	≤ 3.5 %
Particle size (<76 µm, 200 mesh)	≥ 95 %
Fineness (Hegman gauge, unground)	≤ 60 µm
Loss on ignition (850–900°C)	≤ 40 %

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

3. Key Features

- Self-activated – no polar activator required
- No pre-gel preparation needed
- Can be added at any stage of paint production
- Easy dispersion
- Fine dispersion below 40 µm achievable
- Excellent anti-settling and anti-sag performance

- Provides ideal thixotropic structure
- Suitable for medium to low polarity solvent systems

4. Recommended Solvent Systems

BT-381 performs well in:

- Medium polarity solvent systems
- Low polarity solvent systems
- Aromatic hydrocarbon systems
- Resin-based solvent formulations

5. Applications

Widely used in:

- High-grade paints
- Printing inks
- Topcoats and primers
- Sealants
- Industrial coatings

BT-381 provides:

- Controlled sag resistance
- Improved suspension stability
- Formation of flocculated structure for optimized rheology

6. Incorporation Method

- Can be added directly during grinding or post-addition stage
- High-speed dispersion is recommended
- No polar activator required

The optimal dosage should be determined through laboratory testing according to formulation requirements.

7. Comparable International Grades

Comparable to:

- BENTONE® SD-1
- CLAYTONE® HY

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.