

BEZ-300

Organic Modified Bentonite

(Organoclay)

Technical Data Sheet

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1. Typical Specifications

Item Specification

| | |
|-----------------------------------------------|------------------------------|
| Appearance: | White to light yellow powder |
| Particle size (<76 μm / 200 mesh): | $\geq 95\%$ |
| Volatile content (105°C, 2h): | $\leq 3.5\%$ |
| Loss on ignition (850–900°C): | $\leq 40\%$ |

2. Product Features

- Easy dispersion
- Dust-free handling
- Suitable for low, medium and high polarity systems
- No activator required
- No high-speed shear required
- Excellent anti-sag and anti-settling performance
- Superior thickening and thixotropic behavior

3. Applications

Recommended as a rheology modifier / thickener for:

- Solvent-based coatings
- Sealants
- Casting resins
- High-build coatings

- Oil-based drilling fluids
- Unsaturated polyester resins
- Epoxy systems

In unsaturated and epoxy resin formulations, BEZ-300 provides a more suitable alternative to fumed silica, delivering better cost-effectiveness, enhanced thixotropy, and simplified processing.

4. Incorporation Method

Can be added directly at any production stage

No activator required

Recommended dispersion speed: ≥ 400 rpm

Can be pre-gelled in solvents such as:

- Styrene
- Xylene
- Solvent naphtha
- Other solvent blends

5. Recommended Dosage

Application Dosage

| | |
|-------------------------|------------|
| General coatings | 0.2 – 0.6% |
| Hand-lay-up UPR systems | 1 – 6% |

(based on total formulation weight)

6. Packaging & Storage

Packaging:

Double-layer packing with an outer kraft paper bag and an inner polyethylene (PE) bag, or valve bag.

Standard net weight: 25 ± 0.25 kg,
customizable per customer requirements.

Storage:

Store in a dry place

Temperature: 0–30°C

Shelf life: 24 months

7. Notes

The above data are typical values and not to be considered as product specifications. Users should evaluate suitability for their own formulations.