

BENTONE® LT

Rheological Additive for Water-Borne Industrial Coatings

GENERAL INFORMATION

BENTONE LT additive is an organically modified powdered clay additive designed for water-borne systems, primarily latex paints.

CHEMICAL & PHYSICAL PROPERTIES

Composition	organically modified special smectite clay
Color / Form	creamy white, finely divided soft powder
Density	1.95 g/cm ³

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Agro chemicals
- Adhesives
- Ceramics
- Cementitious systems
- Cosmetics
- Crop protection agents
- Latex paints
- Foundry paints
- Plaster-type compounds
- Polishes and cleaners
- Textile finishes
- Waxes

KEY PROPERTIES

Rheological properties

- highly efficient thickener
- imparts high viscosity
- provides thermo stable aqueous phase viscosity control
- imparts thixotropy

Application performance

- prevents hard settlement of pigments/fillers
- reduces syneresis
- minimizes floating/flooding of pigments
- provides wet edge/open time
- improves water retention of plasters
- improves wash and scrub resistance of paints

System stability

- pH stable (3–11)
- electrolyte stable
- stabilizes latex emulsions
- compatible with synthetic resin dispersions,
- polar solvents, non-ionic & anionic wetting agents

Easy to use

- can be incorporated as powder or as an aqueous 3 - 4 wt % (LT solids) pregel.

INCORPORATION

BENTONE LT additive is easy to process and is stable over a range pH 3 - 11. No increased temperature is required; however, warming the water to above 35 °C will accelerate dispersion and hydration rates.

1. Add **BENTONE LT** to a vessel containing only water, pH 7.0 - 8.0. If necessary, adjust pH level. High or low pH during dispersion can lead to inhomogeneous gel formation and reduced efficiency.
2. Mix at highest practicable speed for 10 minutes.
3. After sufficient hydration time, introduce glycols, defoamers, biocides, dispersants, pH modifiers etc. and mix.
4. Add pigments, fillers and active ingredients and disperse.
5. Complete dilution

LEVELS OF USE

Typical addition levels are 0.1 - 1.0% **BENTONE LT** additive by weight of total formulation, depending upon the degree of suspension, the rheological properties or viscosity required.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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STORAGE RECOMMENDATIONS

Store in a cool, dry location. **BENTONE LT** will absorb atmospheric moisture if stored under high humidity conditions.

SHELF LIFE

BENTONE LT has a shelf life of 4 (four) years from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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V01 July 2018

North America

Elementis Specialties, Inc.
469 Old Trenton Road
East Windsor
NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Asia

Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563