

Rheological Additive for Water-Borne Systems

GENERAL INFORMATION

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

PHYSICAL PROPERTIES

| | |
|--------------|--|
| Composition | Organically modified special smectite clay |
| Color / Form | Creamy white, finely divided soft powder |
| Density | 1.95 g/cm ³ |

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

BENTONE® LT rheological additive
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.

- 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.
- Mix at highest practicable speed for 10 minutes.
- After sufficient hydration time, introduce glycols, defoamers, biocides, dispersants, pH modifiers etc. and mix.
- Add pigments, fillers and active ingredients and disperse.
- Complete dilution.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

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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 DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage.

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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