

BENTONE® CT

Thixotropic additive for aqueous construction and coatings systems

GENERAL INFORMATION

BENTONE CT rheological additive is a natural untreated, hectorite clay with a defined particle size. It is suitable for thickening and flow control of aqueous construction and coatings systems.

CHEMICAL & PHYSICAL PROPERTIES

Composition	untreated natural hectorite flay
Colour/Form	free-flowing cream powder
Particle Size	95% <200 mesh
Density	2.60 g/cm ³

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

APPLICATIONS

- Building materials, such as mortar bases on lime,
- cement and gypsum
- Synthetic resin-bound plasters
- Water-borne adhesives
- Household cleaners and polishes
- Low-cost emulsion paints

KEY PROPERTIES

- Is a cost-effective thixotropic additive for
- Aqueous systems
- Provides stable shear-thinning viscosity and
- Texture build over a wide temperature range
- Improves slump or sag resistance
- Improves pumpability and workability of
- Construction systems
- Does not retard drying; has fast water release
- Acts as suspending agent, preventing hard
- Settlement
- Is bacteria- and enzyme-resistant

INCORPORATION

BENTONE CT additive can be added dry to the formulation and will develop its gelling ability with water under high-shear dispersion conditions. It is stable over a pH range 6 - 11.

BENTONE CT can be incorporated as pre-gel in water for improved performance. An easier incorporation is achieved when preparing a pre-gel at 7 - 10% solids in warm water. High-shear forces are required for 20 - 30 minutes (high-speed disc impeller at 15 - 20 ms⁻¹ typical peripheral speed). The pre-gel can then be added to the system as required and is easily incorporated under moderate shear.

Optimum performance is achieved if the pre-gel is added during high-shear dispersion of other solid ingredients.

LEVELS OF USE

The level of addition depends on the desired consistency of the system. Typical levels range from 0.5 - 3.0% BENTONE CT additive, based on the total formulation.

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.

STORAGE RECOMMENDATIONS

Store in a cool, dry location.

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SHELF LIFE

BENTONE CT 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.

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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