

## Rheological Additive for Water-Borne Systems

## GENERAL INFORMATION

BENTONE EW additive is a highly beneficiated, easily dispersible powdered smectite clay.

## PHYSICAL PROPERTIES

Composition	highly beneficiated smectite clay
Color / Form	milky-white, soft powder
Density	2.5g/cm
Particle Size	94% < 200 mesh minimum

## APPLICATIONS

- Adhesives
- Ceramic compounds
- Ceramic glazes
- Corrosion-inhibitive primers
- Cosmetics
- Crop protection agents
- Electrodeposition coatings
- Latex paints
- Foundry paints/foundry resins (washes)
- Oil-in-water emulsions
- Other water-borne paint systems
- Paper coatings
- Polishes and cleaners
- Welding electrodes

## KEY PROPERTIES

**BENTONE EW rheological additive**

## rheological properties

- provides thermostable aqueous phase viscosity control
- imparts thixotropy

## application performance

- enhances texturing and stippling effects
- improves workability/application of plasters
- no throwing power loss in electrostatic systems
- promotes fast water release

## system stability

- electrolyte emulsions
- stabilises emulsions
- provides good stability in electrostatic coating baths
- prevents hard settlement of pigments/fillers
- reduces syneresis
- minimises floating/flooding of pigments

## easy to use

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

## INCORPORATION

BENTONE EW additive is easy to process. No increased temperature is required.

1. Add BENTONE EW to a vessel containing only water, pH 7.0-8.0. If necessary, adjust pH level. pH can be adjusted with appropriate alkali but triethanolamine can cause degelling. High or low pH during dispersion can lead to inhomogeneous gel formations and reduced efficiency.
2. Mix at highest practicable speed for 10 minutes.
3. After sufficient hydration time, introduce glycols, defoamers, biocides, dispersants etc. (mix)
4. Add pigments, fillers, and active ingredients and disperse.
5. Complete dilution.

BENTONE EW additive is stable within the range pH 6-11.

## LEVELS OF USE

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

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## HANDLING AND SAFETY

More detailed information on handling and safety for each product is included in the relevant material safety data sheet, available for each product.

## STORAGE RECOMMENDATIONS

Store in a dry place. BENTONE EW additive will absorb moisture in high humidity conditions.

## PACKAGING

BENTONE EW rheological additive is available in multi-ply paper bags. Please contact your local Elementis Specialties representative for the packaging available in your region.

## SHELF LIFE

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

## PRODUCT NUMBER

10839

## 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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