ELEMENTIS
A global specialty chemicals company

Enhanced Performance Through Applied Innovation

BENTONE® EW NA

Rheological Additive for Water-Borne Systems

GENERAL INFORMATION

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

CHEMICAL & PHYSICAL PROPERTIES

Composition	highly beneficiated smectite clay
Color / Form	milky-white, soft powder
Density	2.5 g / cm^3
Particle Size	94% < 200 mesh minimum

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

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 NA 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 NA additive is easy to process. No increased temperature is required.

1. Add **BENTONE EW NA** 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 NA additive is stable within the range pH 6-11.

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LEVELS OF USE

Typical addition levels are 0.1 - 1.0 % **BENTONE EW NA** 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.

STORAGE RECOMMENDATIONS

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

SHELF LIFE

BENTONE EW NA 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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