

## Rheological Additive for Waterborne Systems

### GENERAL INFORMATION

BENTONE® DS additive is a beneficiated, easily dispersible powdered hectorite clay.

### PHYSICAL PROPERTIES

Composition	beneficiated hectorite clay
Color / Form	milky-white, soft powder
Apparent (bulk) density	Approx. 0.4 g/cm <sup>3</sup>
Particle Size	min 93% thru 200 mesh

### APPLICATIONS

- Architectural coatings, mid to high PVC
- Building materials, such as mortar based on cement and lime
- Gypsum plasters
- Lime-cement rendering
- Waterborne adhesives

### KEY PROPERTIES

#### BENTONE® DS rheological additive

##### Application performance

- improves flow properties and surface quality
- improves slump/sag resistance
- reduces stickiness, provides easier troweling
- improves workability/application of plasters, promotes fast water release
- optimizes water stability of the finally cured system
- Partial replacement for cellulose ether

##### System stability

- prevents hard settlement of pigments/fillers
- reduces syneresis
- minimises floating/flooding of pigments

##### Easy to use

- can be incorporated as a powder

### INCORPORATION

BENTONE® DS additive is easy to process. No increased temperature is required.

1. Add BENTONE® DS dry to a vessel containing only water.
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® DS additive provides stable gels within the pH range of 6-11.

### LEVELS OF USE

Typical addition levels are 0.2 - 2.0% BENTONE® DS 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. MSDS can be found on the company website at [www.elementis-specialties.com](http://www.elementis-specialties.com).

### STORAGE RECOMMENDATIONS

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

### SHELF LIFE

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

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**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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[www.elementis-specialties.com](http://www.elementis-specialties.com)

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**USA Head Office**

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

**China**

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