

## BENTONE® WBS

### Smectite clay based rheological additive

#### GENERAL INFORMATION

**BENTONE WBS** rheological additive is a beneficiated, high purity smectite clay for waterborne coatings and related systems.

#### CHEMICAL & PHYSICAL PROPERTIES

Composition	beneficiated smectite clay
Solids content	100 % powder
Colour	creamy white
Specific gravity	ca. 2.5 kg/l
Particle size	98% < 53 µm (270 mesh)

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

#### APPLICATIONS

- Waterborne decorative latex paints and similar systems
- Gypsum plasters
- Building materials such as mortars and renderings based on lime, cement and gypsum

#### KEY PROPERTIES

- Prevents settling of pigments and fillers
- Provides low- and mid-shear viscosity
- Provides enhanced sag and slump resistance
- Improves workability
- Compatible with other thickeners

#### INCORPORATION

**BENTONE WBS** additive is very easy to process. It can be used either as a pre-gel or powder. A pre-gel can be prepared as follows.

Add **BENTONE WBS** gradually, with stirring, to a vessel containing only water.

Mix at highest practical speed for 10 minutes.

In this way, 5 % to 10% pre-gels can be made. Typically a 8% pre-gel is recommended. This can then be added to the formulation as convenient.

**BENTONE WBS** can also be incorporated as a powder at the start of the mill-base. It should be allowed to wet-out and swell under shear in water before the other ingredients are added.

#### LEVELS OF USE

Typical dosage of **BENTONE WBS** depends on the nature of the system. Anywhere between 0.2 % and 3.0% by weight on the total system might be required. For initial screening 0.5 - 1.0% is recommended.

**BENTONE WBS** can be combined with other rheological additives to optimise the flow and application behaviour of waterborne systems.

#### 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 location.

#### SHELF LIFE

**BENTONE WBS** has a shelf life of minimum 4 (four) years from the 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.*

© Copyright 2019, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Trademark of Elementis Specialties, Inc.

V02 Mar. 2019

#### North America

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

#### Asia

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