TECHNICAL DATA SHEET

ELEMENTIS

BENAQUA® 4010

Rheological Additive for water-borne systems

GENERAL INFORMATION

BENAQUA® 4010 rheological additive is an easily dispersible powder designed for lower-gloss and matt latex paints, textured and high-build coatings and water-borne adhesives. It is especially useful in systems that are diluted with water prior to use.

BENAQUA® 4010 influence on low- and mid-shear-viscosity and fast viscosity/ structure recovery in combination with suspension control resulting in storage stability (anti-sedimentation), film-thickness control (slump resistance) for textured and high-built systems, adhesive, sealants and construction systems. Partial replacement of cellulosic for less "stickiness" leading to improved application feel and stable slump resistance.

CHEMICAL & PHYSICAL PROPERTIES

Composition:	Natural Hectorite Polymer Blend
Appearance:	off-white, finely divided powder
Bulk density:	0.52 g/cm³
Non-volatile content:	100%

Note: These are typical properties not to be used for specification purposes

APPLICATIONS

Adhesives, Mastics and Sealants

- WB ready mixed systems
- Powder systems (Gyspum & Calcium Carbonate based)
- Dispersion(ready-mix) tile adhesive
- ETICS/EIFS
- Joint compounds and grouts
- Leveling system

Paints

- Dry-fall paints
- High-build & textured paints
- Matt and Semi-gloss latices
- Plasterboard coatings
- Primers/sealers

KEY PROPERTIES.

Rheological properties

- Excellent suspension
- Thixotropy
- fast structure recovery
- Minimized mud cracking

Application performance

- Superior sag resistance
- storage stability (anti-sedimentation)
- film-thickness control (slump resistance)
- Efficient spray atomization
- Enhanced textured and stippling effects (roller or spray applied)

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INCORPORATION

BENAQUA® 4010 additive can be incorporated directly in the mill-base or via a pre-gel a toothed blade disperser (e.g. Cowles).

Because **BENAQUA® 4010** is partially associative, its full thickening efficiency may not be realised until the resin is added to the system. pH adjustment of the batch to pH 8.5 - 10.0 will enhance performance.

Mill-base Addition

BENAQUA® 4010 is added to water (pH 8.5- 10.0) and mixed at moderate speed until a smooth dispersion is formed (5 - 10 min.). The remaining ingredients are added and dispersed under high shear. The letdown stage is completed and the batch adjusted to pH 8.8 - 10.0.

LEVELS OF USE

The typical levels of use for **BENAQUA® 4010** are 0.3% to 2.0% by weight

HEALTH & 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.

SHELF LIFE

BENAQUA® 4010 has a shelf life of two (2) years from date of manufacture

STORAGE RECOMMENDATIONS

To be sorted and transported at a cool, dry location.

Store in a cool, dry location.

BENAQUA® 4010 will absorb moisture in high humidity conditions. Ensure that bags are securely closed after each use to prevent moisture ingress.

BENAQUA® 4010 should be avoided at temperature above 40 °C (104°F).

QUALITY ASSURANCE

Quality system at the site manufacturing this product complies with and is certified to ISO 9001 quality 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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