

BYK-AQUAGEL 7110

Rheology additive based on a natural, modified, highly purified, and activated phyllosilicate for aqueous systems for the adjustment of a thixotropic flow behavior. In intermediates, it produces a gel structure.

Product data

Composition

Modified activated phyllosilicate

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Bulk density: 450-650 kg/m³
Water content: max. 13 %
Delivery form: powder

Storage and transportation

Product shelf life in unopened original packaging: 24 months
To be stored and transported between -30 °C and 50 °C.

Applications

Coatings industry

Special features and benefits

- Easier processing and higher effectiveness than conventional natural phyllosilicates due to the significantly more open, delaminated structure
- Water thickening effect in intermediates
- Creation of thixotropic flow behavior
- Improvement of
 - Storage stability by preventing the settling of solids
 - Processing properties of higher-filled systems
 - Sag resistance
- Stable against diluted bases and common diluted acids

Recommended use

BYK-AQUAGEL 7110 is recommended for a wide range of aqueous and cosolvent-containing coating systems and is particularly suitable for use in matted and pigmented wood coating systems, emulsion plasters and paints, and pigment concentrates.

| | |
|--------------------------------|-------------------------------------|
| Architectural coatings | <input checked="" type="checkbox"/> |
| General industrial coatings | <input checked="" type="checkbox"/> |
| Wood and furniture coatings | <input checked="" type="checkbox"/> |
| Marine and protective coatings | <input type="checkbox"/> |

especially recommended recommended

Recommended levels

0.1-3 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

BYK-AQUAGEL 7110 can be incorporated in two different ways.

Incorporation as a powder: The additive is added directly to filled systems as a powder during the dispersion phase, stirring slowly and continuously.

Incorporation as an intermediate: Up to a maximum of 4 % of the powder is dispersed in water until dissolved. This forms a gel structure (water thickening effect). After approx. 10 minutes at medium shear forces, the intermediate is ready for further processing.

When used in pigment concentrates, it should be added during dispersion together with other solids.

Adhesives and sealants**Special features and benefits**

- Easier processing and higher effectiveness than conventional natural phyllosilicates due to the significantly more open, delaminated structure
- Adjusting a targeted rheological property profile for aqueous and higher-filled adhesive and sealant systems
- Improvement of
 - Sag resistance
 - Storage stability by preventing the settling of fillers

Recommended use

BYK-AQUAGEL 7110 is recommended for use in aqueous, higher-filled adhesive and sealant systems.

Recommended levels

0.2-3 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

BYK-AQUAGEL 7110 can be incorporated in two different ways.

Incorporation as a powder: The additive is added directly to filled systems as a powder during the dispersion phase, stirring slowly and continuously.

Incorporation as an intermediate: Up to a maximum of 4 % of the powder is dispersed in water until dissolved. This forms a gel structure (water thickening effect). After approx. 10 minutes at medium shear forces, the intermediate is ready for further processing.

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