

BYK-AQUAGEL 7100

Rheology additive based on a natural, highly purified, delaminated phyllosilicate for aqueous systems for the adjustment of a thixotropic flow behavior. Easy incorporation combined with high effectiveness.

Product data

Composition

Phyllosilicate

Typical properties

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

Bulk density: 400-700 kg/m³
 Water content: max. 13 %
 Delivery form: powder

Storage and transportation

Product shelf life in unopened original packaging: 60 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
- Manufacturing of highly filled, flowable intermediates that can be further processed universally without additional dispersion and remain low-viscosity and storage-stable over a long period
- 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 7100 is suitable for a multitude of aqueous paint systems and especially for use in matted and pigmented wood coating systems, emulsion plasters, emulsion paints, and pigment concentrates.

Architectural 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

0.1-3.0 % 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

Due to its easy incorporation, BYK-AQUAGEL 7100 can be added to filled systems directly as a powder during the dispersion phase while stirring slowly and continuously. Alternatively, it can also be added as a flowable intermediate. For this purpose, 5 to 8% of the powder is distributed and dissolved homogeneously in water. The flowable and pumpable suspension is ready for further processing after approx. 10 minutes using medium shear forces. No wetting and dispersing additives are necessary to solubilize the storage-stable intermediate.

Special note

The product should be added to pigment concentrates during dispersion along with other solid substances.

Construction chemicals**Special features and benefits**

- Adjustment of a targeted rheological property profile in aqueous and highly filled construction formulations
- Universally applicable thanks to easy handling as an intermediate in the neutral and alkaline pH range
- Improvement of
 - Storage stability of paste-like systems
 - Sag resistance
 - Processing properties during application

Recommended use

Particularly suitable for paste-like construction formulations.

Jointing compounds and putties	<input checked="" type="checkbox"/>
Tile adhesives	<input type="checkbox"/>

especially recommended recommended

Recommended levels

0.2-1.0 % 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

The addition of BYK-AQUAGEL 7100 is preferred for use as an all-purpose, flowable intermediate. For this purpose, 5 to 8% of the powder is distributed and dissolved homogeneously in water. The flowable and pumpable suspension is ready for further processing after approx. 10 minutes using medium shear forces.

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 levels

0.2-3.0 % 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

Due to its easy incorporation, BYK-AQUAGEL 7100 can be added to filled systems directly as a powder during the dispersion phase while stirring slowly and continuously. Alternatively, it can also be added as a flowable intermediate. For this purpose, 5 to 8% of the powder is distributed and dissolved homogeneously in water. The flowable and pumpable suspension is ready for further processing after approx. 10 minutes using medium shear forces. No wetting and dispersing additives are necessary to solubilize the storage-stable intermediate.



Your local
contact

BYK-Chemie GmbH

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
info@byk.com
www.byk.com



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byk.com/app

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