

## BYK-AQUAGEL 7110

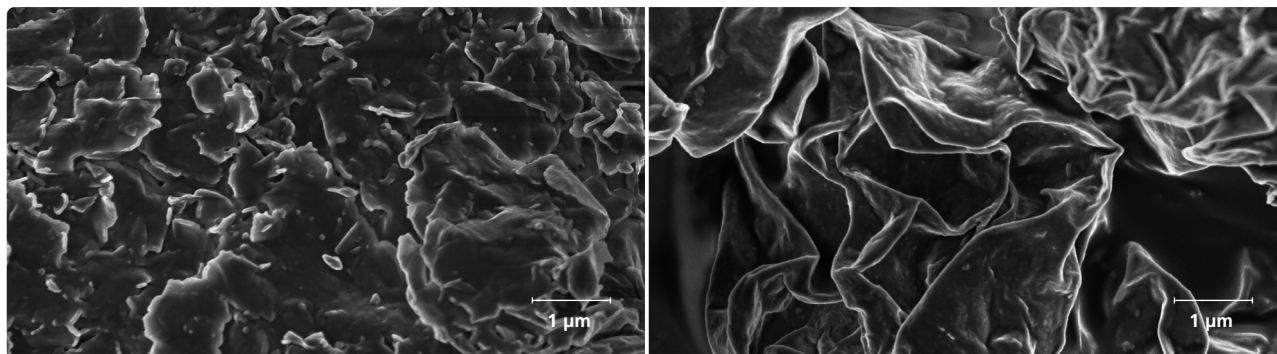
### Rheology additive based on a modified and highly purified phyllosilicate for adjusting thixotropic flow behavior in aqueous systems

New BYK-AQUAGEL 7110 is an organically modified phyllosilicate that provides thixotropic flow behavior and very good anti-settling properties in aqueous systems as well as an increase in storage stability in final products. It is based on a naturally sourced phyllosilicate but thoroughly purified and then "shock-dried", creating a permanently delaminated, open structure and preventing the reagglomeration of the single clay platelets.

This structure results in a larger surface area and thus easier dispersion and incorporation into the system, as well as better rheological effectiveness compared to conventionally treated natural phyllosilicates. Hence, time-consuming dispersion at high shear forces is rendered unnecessary and final viscosity levels are achieved sooner.

Intermediates which are produced with BYK-AQUAGEL 7110 develop a higher viscosity (water viscosity) immediately after the additive has been stirred in.

#### Comparison of phyllosilicates after purification and drying



Conventionally purified and dried phyllosilicate  
with reagglomeration tendency  
→ incorporation requires higher dispersion effort

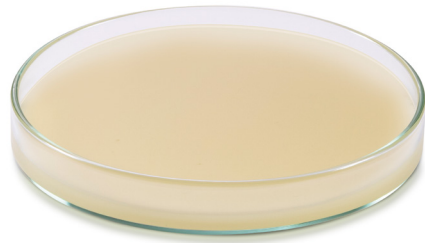
BYK-AQUAGEL with permanently delaminated  
structure and higher surface area  
→ easy incorporation

### Benefits

- Shock-drying provides permanently open, delaminated, and slightly pre-activated structure
- Easy incorporation and instant activation
- Better rheological effectiveness  
→ lower additive dosage required to achieve final viscosity levels
- Thixotropic flow behavior
- Water viscosity
- Excellent anti-settling properties and sag resistance in final products

## BYK-AQUAGEL 7110: Water viscosity in intermediates

BYK-AQUAGEL 7100



BYK-AQUAGEL 7110



Test system: 4 % additive (as supplied) in water

### Applications

- Architectural coatings
- General industrial coatings
- Wood and furniture coatings
- Marine and protective coatings
- Adhesives and sealants

### Technical data

- Bulk density: 450–650 kg/m<sup>3</sup>
- Water content: max. 13 %
- Delivery form: powder



Your local contact

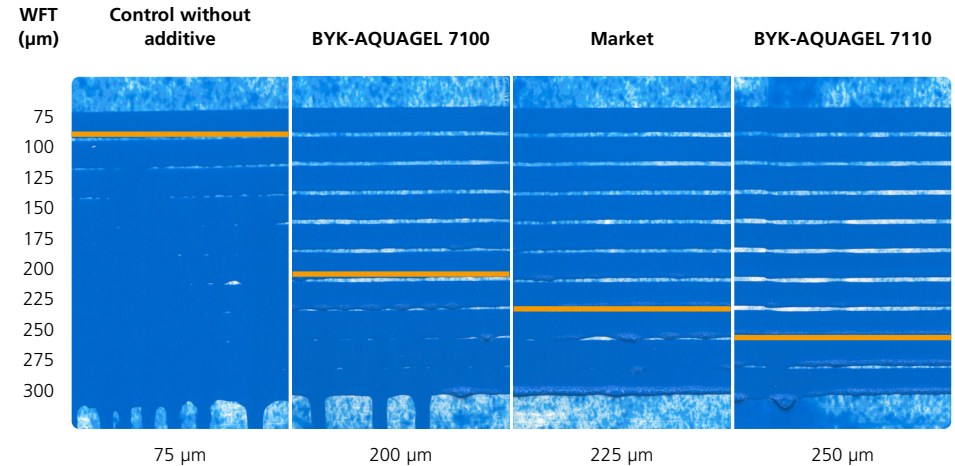
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## BYK-AQUAGEL 7110: Best sag resistance in an industrial coating



Test system: 2K-PUR topcoat

Additive dosage: 0.5 % (as supplied) on component A (added via a 4 % intermediate)



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