

AQUATIX 8421

Rheology-modifying wax emulsion based on a modified EVA copolymer wax to improve the effect pigment orientation in aqueous coatings.

Product Data

Composition

Non-ionic emulsion of a modified ethylene vinyl acetate copolymer wax (EVA)

VOC-free (< 1500 ppm)

Typical Properties

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

Non-volatile matter: 20 %
Carrier: Water
Melting point (wax content): 105 °C
Viscosity (23 °C, D=800/s): < 100 mPa·s
pH value: 5.5

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Temperature sensitive. To be stored and transported between 5 °C and 35 °C. Stir before use.

Applications

Coatings Industry

Special Features and Benefits

The rheology additive improves the orientation of effect pigments and reduces cloudiness/mottling. At the same time it reduces sedimentation in the coatings during storage and processing. In comparison with polyurethane thickeners the additive displays a lower cosolvent sensitivity and incorporation and handling (ready to use) is significantly easier compared with clays and acrylate thickeners. AQUATIX 8421 is extremely well suited to improving the rheological properties and the brilliance of cosolvent-free effect pigment slurries.

Recommended Use

Automotive coatings	<input checked="" type="checkbox"/>
Industrial coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>
Leather finishes	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

5-10 % additive (as supplied) based upon total formation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

AQUATIX 8421 should preferably be incorporated in the coating at a low shear rate after the effect pigment preparation has been added. There is no need to pre-dilute with water. As a result of the acidic character of AQUATIX 8421, the pH value of the system is reduced. It is therefore recommended that the pH value is adjusted to 9-9.5 before adding the additive. The higher the cosolvent content of the formulation, the more important it is to adjust the pH value. The final viscosity should not be adjusted using a flow cup but using a rotational viscometer (e.g. Brookfield).



Additive Guide



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