

## RHEOLOGY CONTROL

# QK8521 Waterborne Aluminium Pigment Orientation Agent

Positioned against BYK 8421

VOC-free EVA wax emulsion that lays aluminium and pearl pigment flat in waterborne basecoats.

## Overview

QK8521 is a rheology-modified wax emulsion based on modified ethylene-vinyl acetate copolymer, supplied at 20% active in water with no VOC below 1500 ppm. It improves the orientation of effect pigments in waterborne coatings, cuts cloud patches and spotting, and is less sensitive to co-solvent than polyurethane thickeners. It arrives ready to use, so there is no bentonite pre-gel or acrylic thickener let-down to prepare.

## Typical Data

| Property              | Value                                                            |
|-----------------------|------------------------------------------------------------------|
| Chemical composition  | Non-ionic modified ethylene-vinyl acetate copolymer wax emulsion |
| VOC                   | None, below 1500 ppm                                             |
| Active content        | 20 +/- 1%                                                        |
| Carrier               | Water                                                            |
| Melting point (wax)   | 105C                                                             |
| Viscosity             | 500 mPa.s                                                        |
| pH                    | 5.0-7.0                                                          |
| Storage and transport | 0-35C                                                            |
| Shelf life            | 6 months at room temperature in the original package             |
| Packing               | 50 kg / 200 kg                                                   |

## Recommended Dosage

| Basis                             | Addition level |
|-----------------------------------|----------------|
| On total formulation, as supplied | 5-10%          |

Dispersant figures are percentages on pigment weight, not on the total batch. Published values are empirical; confirm the optimum with a dosage ladder in your own system.

## Use Guide

- Add at a low shear rate after the effect pigment has been added. Do not pre-dilute with water.
- Raise system pH to 9-9.5 before adding, because QK8521 is acidic and will pull the pH down. The higher the co-solvent content, the more pH headroom is needed.
- Shake well before use and filter out any dried or hardened material.
- Once opened, use the container up within a short period.
- Read the final viscosity on a rotational viscometer such as a Brookfield, not a flow cup.

## Applications

- Waterborne automotive basecoat, the application the data sheet recommends first

- Waterborne industrial metallic coatings
- Wood and furniture coatings needing an even metallic effect
- Leather finishes

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Typical values are indicative of the product and are not release specifications. Data reproduced from the manufacturer data sheet.