

WETTING AND DEFOAMING

QK706E Wetting and Defoaming Agent

Positioned against SURFYNOL 104E

Gemini non-ionic surfactant that cuts dynamic surface tension and suppresses foam in waterborne coatings, inks and adhesives.

Overview

QK706E is a Gemini non-ionic surfactant supplied at 50% active in ethylene glycol. It combines water dispersion, wetting, levelling and foam suppression in one additive, and it is particularly effective at lowering dynamic surface tension, which is what governs defects on a fast-moving wet film. On demanding finishes it prevents cratering, pinholing and fisheyes.

Typical Data

Property	Value
Appearance	Yellow transparent liquid
Active component	50%
Foam behaviour	Defoaming
Density (25C)	0.9-1.0 g/cm ³
Colour number	300
Solvent	Ethylene glycol
Dynamic surface tension (0.1% in water, 25C)	38.5 mN/m
Static surface tension (0.1% in water, 25C)	37.7 mN/m
Storage	5-35C, cool and dry
Shelf life	2 years

Recommended Dosage

Basis	Addition level
Recommended addition	0.1-1%

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 0.1-1% and stir for 15 to 30 minutes to make sure it is evenly mixed.
- If viscosity rises during addition, warm the batch slightly.
- Add it together with other surfactants and polymers so everything dissolves or disperses properly.
- Best added before pigment and filler, so it wets the solids and holds down foam generated during mixing.

Applications

- Waterborne coatings applied at high line speed where dynamic surface tension dominates
- Waterborne inks and overprint varnish
- Adhesives and waterborne oil systems
- Resin-free pigment concentrate grinding

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