

WETTING AND DISPERSING

QK3770 Wetting and Dispersing Agent

Positioned against BYK 190

VOC-free block copolymer dispersant for waterborne wood and industrial coatings and resin-free concentrates.

Overview

QK3770 is a high molecular weight block copolymer carrying pigment affinity groups, supplied at 40% active in water with no VOC below 1500 ppm. It wets and disperses pigment in waterborne coatings and pigment concentrates, cutting grind time and mill base viscosity while raising gloss, colour strength, transparency and hiding power, especially on organic pigments and carbon black.

Typical Data

Property	Value
Chemical composition	High molecular weight block copolymer solution with pigment affinity groups
VOC	None, below 1500 ppm
Appearance	Light yellow liquid
Active ingredient	40 +/- 2%
Density	Approximately 1.06 g/cm ³
pH	6-8
Solvent	Water
Storage	5-40C, out of direct sunlight
Shelf life	24 months from production date
Packing	25 kg / 200 kg

Recommended Dosage

Basis	Addition level
Inorganic pigments	10-15%
Organic pigments	30-70%
Titanium dioxide	5-10%
Carbon black	60-120%

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

- Grind in water only. Resin, amine and co-solvent must not be present during the grind.
- Mix the additive with water first, then add pigment and grind until fully dispersed.
- Dosage is calculated on pigment, so the carbon black figure of 60-120% is on the carbon black, not on the batch.
- Avoid direct skin contact. If contact occurs, rinse with soap and water.

Applications

- Waterborne wood coatings
- Waterborne industrial coatings

- Resin-free pigment concentrate production
- Carbon black tinters where jetness matters

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