

WETTING AND DISPERSING

QK3320 Polyurethane Wetting and Dispersing Agent

80% active polyurethane dispersant for highly polar solventborne systems: automotive, motorcycle and coil coatings.

Overview

QK3320 is a polyurethane-type wetting and dispersing agent for solvent systems, supplied at 80% active in EGDA. The high molecular weight polyurethane backbone carries pigment affinity groups, so it wets fast, cuts grind viscosity sharply and keeps pigment stabilised against flocculation. It is aimed at highly polar resin systems, which is where automotive and coil coatings sit.

Typical Data

Property	Value
Chemical composition	High molecular weight polyurethane copolymer solution with pigment affinity groups
Appearance	Light yellow liquid
Active ingredient	80 +/- 2%
Density	Approximately 1.05 g/cm ³
Solvent	EGDA
Storage	10-40C, out of direct sunlight
Shelf life	24 months from production date
Packing	25 kg / 200 kg

Recommended Dosage

Basis	Addition level
Inorganic pigments	5-10%
Organic pigments	10-30%
Titanium dioxide	3-5%
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

- Premix the resin and solvent components first, add the additive slowly and mix evenly, then add pigment.
- If the addition order was wrong, it can be corrected by post-addition, but the additive must go in slowly under high shear.
- Keep drums between 10 and 40C and out of direct sunlight.
- Avoid direct skin contact; rinse with soap and water if it occurs.

Applications

- Automotive and motorcycle coatings
- Highly polar resin industrial coatings
- Coil coatings

Third-party grade names such as BYK, TEGO, EFKA, Elementis, Allnex, Lubrizol, Evonik, Disparlon, Clariant, Dow, Rohm and Haas and Nuplex are trademarks of their respective owners. They appear on this site only to describe which commercial grade a QK product is positioned against. No affiliation or endorsement is implied.

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