KAM-DCA 47

High molecular weight dispersion control additive for solvent-based coatings and pigment concentrates.
Particularly suited for stabilizing carbon black pigments with a fine particle size as well as organic pigments.
Strong reduction of mill-base viscosity.

Technical Specifications

Composition	:	High molecular weight block copolymer with pigment affinic groups
Solvent(s)	:	Butylacetate/Methoxypropylacetate/n-Butanol
Specific gravity @ 20°C	:	ca. 0.98 g/cm^3
Flashpoint	:	24 °C
Amine value	:	19 mg KOH/g
Appearance	:	Clear to slightly hazy yellowish liquid
Active matter	:	34.5%

Applications

KAM-DCA 47 deflocculates pigments and stabilizes them by means of steric hindrance.
It provides equal electrical charge to the pigment particles.
The resulting repulsion and the steric stabilization prevent a possible co-flocculation, which leads to flood- and float-free color in pigment mixtures. The deflocculating properties of the additive lead to:

- Increased gloss and DOI
- Reduced flooding problems
- Higher color strength
- Reduced viscosity of the mill-base

KAM-DCA 47 is recommended in automotive and general industrial coatings and is particularly suited for stabilizing carbon black pigments with a fine particle size as well as organic pigments.

The higher molecular weight of **KAM-DCA 47** compared to **KAM-DCA 46** gives stronger deflocculation results with some organic pigments and carbon blacks. Pigment concentrates based on **KAM-DCA 47** exhibit low viscosity and can even be used in pure let-downs based on white spirit.

KAM-DCA 47 should be incorporated in the mill-base before adding the pigments.
Amount of additive based upon pigment can be determined as follows:

Inorganic pigments : 10% of oil absorption value (solid form) or 5-15% (as supplied)
Organic pigments : 30-50% of BET value (solid form) or 30-90% (as supplied)
Carbon blacks : 15-25% of DBP value (solid form) or 70-130% (as supplied)

Storage, Safety and Packaging

To be stored in a cool dry place and handled in accordance with good industrial practice.
When kept in an original unopened container, it will keep up to min. 4 years from the date of manufacture.

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