

KAM-DCA 170

High molecular weight dispersion control additive for solvent-based coil coatings and industrial coatings.

Particularly suited for acid-catalyzed and acid-curable coating systems.

Technical Specifications

Composition	: High molecular weight block copolymer with pigment affinic groups
Solvent(s)	: Methoxypropylacetate/Butylacetate
Specific gravity @ 20°C	: ca. 1.02 g/cm ³
Flashpoint	: 36 °C
Acid value	: 11-12 mg KOH/g
Appearance	: Slightly yellowish liquid
Active matter	: 30%

Applications

KAM-DCA 170 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
- Better color strength
- More transparency in the final application
- Strong reduction of the mill-base viscosity

KAM-DCA 170 is recommended for industrial coatings and particularly coil coatings. The preferred fields of application are acid-catalyzed polyester/melamine top coats and PVDF systems.

KAM-DCA 170 should be incorporated in the mill-base before adding the pigments.

Amount of additive based upon pigment can be determined as follows:

Titanium dioxide	: 10% of <u>oil absorption value</u> (solid form) or 5-8% (as supplied)
Inorganic pigments	: 10% of <u>oil absorption value</u> (solid form) or 10-20% (as supplied)
Organic pigments	: 30-55% of <u>BET value</u> (solid form) or 35-70% (as supplied)
Carbon blacks	: 15-30% of <u>DBP value</u> (solid form) or 70-140% (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.

Separation or turbidity may occur at temperatures < 0 °C. Warm to 20 °C and mix well.