

## KAM-DCA 402

High molecular weight dispersion control additive for solvent-based inks. Specially recommended for the preparation of resin-free pigment concentrates suited for solvent-based inks.

### Technical Specifications

Composition	: Block copolymer with pigment affinic groups
Solvent(s)	: Ethanol
Specific gravity @ 20°C	: ca. 0.98 g/cm <sup>3</sup>
Amine value	: 45 mg KOH/g
Appearance	: Orange to amber liquid
Active matter	: 70%

### Applications

**KAM-DCA 402** is a high molecular weight wetting and dispersing additive for all kinds of pigments used in the solvent-based graphic arts industry (Flexographic and gravure printing inks).

**KAM-DCA 402** is especially recommended for the preparation of mill-bases or pigment concentrates with no grinding resin, which can be incorporated in most resin systems used in the solvent-based graphic arts industry such as Nitrocellulose, PU, PVB, ...etc.

**KAM-DCA 402** is recommended in alcohol- and ester-rich ink formulations.

Using **KAM-DCA 402** in resin-free pigment concentrates can lead to the following benefits:

- Highly pigmented dispersions/pigment concentrates with low viscosity
- Improved particle size reduction and stability over time
- High gloss in the final ink

**KAM-DCA 402** is not suited for UV curing inks. When used in polyamide inks, **KAM-DCA 402** needs to be combined with **KAM-DCA 108** to improve compatibility in the final ink.

**KAM-DCA 402** should be incorporated in the mill-base before adding the pigments.

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

Organic pigments: **20-30% of BET value**

Carbon blacks: **20-50% of DBP value**

Typical guiding formulations are as follows:

34% **PR 57:1 pigment**/15% KAM-DCA 402/51% Ethanol+Ethyl acetate

30% **PB 15 :4 pigment**/15% KAM-DCA 402/55% Ethanol+Ethyl acetate

28% **PY 13 pigment**/15% KAM-DCA 402/57% Ethanol+Ethyl acetate

### 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.