

**Dispersion Control Additive** Technical Data Sheet 11/07/2023

## **KAM-DCA 115**

High molecular weight dispersion control additive for solvent-based coatings with strong viscosity depressing properties.

Recommended for universal solvent-based pigment concentrates, particularly where costeffective performance is vital.

## **Technical Specifications**

Composition	:	Block copolymer with pigment affinic groups
Solvent(s)	:	Xylene/Butylacetate/Methoxypropylacetate
Specific gravity @ 20°C	:	ca. 1.00 g/cm³
Flashpoint	:	28 °C
Acid value	:	18-21 mg KOH/g
Amine value	:	7-9 mg KOH/g
Appearance	:	Slightly yellowish liquid
Active matter	:	55%

## **Applications**

**KAM-DCA 115** 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 floodand float-free color in pigment mixtures. The deflocculating properties of the additive lead to:

- Improved gloss
- Reduced flooding
- Increase color strength
- Higher pigment loads
- Drastically reduced viscosity of the mill-base

**KAM-DCA 115** is recommended in general industrial and high-quality architectural coatings. Thanks to its broad compatibility and viscosity reduction power, it is well suited to the formulation of pigment concentrates.

**KAM-DCA 115** 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 <u>oil absorption value</u> (solid form) or 10-25% (as supplied)
Organic pigments	: 30-55% of <u>BET value</u> (solid form) or 25-65% (as supplied)
Carbon blacks	: 15-30% of <u>DBP value</u> (solid form) or 70-100% (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.

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The technical information and specifications contained in this data sheet are based on careful investigations and given to the best of our knowledge. Nevertheless, circumstances under which the product is used in practice are subject to many variations. **KAM-FCA®**, **KAM-SCA®**, **KAM-DCA®** and **KAM-RCA®** are registered trademarks of KAM Kimya.