

KAM-DCA 111

Solvent-free dispersion control additive for solvent-borne and solvent-free coatings and printing inks for stabilizing inorganic pigments, in particular titanium dioxide. Well-suited for filled unsaturated polyester and epoxy systems as well as for PVC Plastics and adhesives.

Technical Specifications

Composition	: Polymeric phosphoric acid ester
Solvent(s)	: -
Acid value	: 128-130 mg KOH/g
Specific gravity @ 20°C	: ca. 1.16 g/cm ³
Appearance	: Transparent and slightly yellowish liquid
Active matter	: >98%

Applications

KAM-DCA 111 helps to wet and disperse inorganic pigments and extenders leading to:

- Higher pigment load and reduced viscosity of the mill-base
- Improved gloss and flow
- Elimination of haze during electrostatic application

KAM-DCA 111 is recommended for all solvent-borne and solvent-free coatings and printing inks to stabilize inorganic pigments, specifically titanium dioxide. Given its anionic character, it is considered ideal for acid-catalyzed systems (e.g. coil coatings).

It is also well-suited for highly filled unsaturated polyester and epoxy systems as well as for adhesives and UV-curable systems where the use of solvents is restricted. Accordingly, it is recommended for the following applications:

- Low emission SMC/BMC
- Pultrusion
- PVC Plastics
- Floorings
- UV Curing

KAM-DCA 111 should be incorporated in the mill-base before adding the pigments. In higher filled systems (Composite industry), **KAM-DCA 111** should be added to the resin mixture prior to homogenization and the addition of the fillers/pigments.

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

Inorganic pigments	: 2.5-5% (as supplied)
TiO ₂	: 1-3% (as supplied)
Fillers	: 0.25-1% (as supplied)

Storage, Safety and Packaging

To be stored in a cool dry place and handled in accordance with good industrial practice. Turbidity may occur at temperatures < 30 °C. When kept in an original unopened container, it will keep up to min. 4 years from the date of manufacture.

KAM Kimya Sanayi Ve Ticaret Limited Şirketi
Organize Sanayi Bölgesi
Mah. 24 Nolu CAD. No: 1
Merkez/Kilis
Turkey

Tel. +90 (0)3488 033 939

info@kamkimya.com
www.kamkimya.com

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.

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