

ANTIGEL[®] KF-D

Multifunctional additive for solvent borne and water-based coating systems, free of ketoxime and aromates, biodegradable

Chemical base: Antioxidant with additives in solvent mixture

Properties: **ANTIGEL[®] KF-D** has the following properties:

- Stabilisation of viscosity against air oxidation
- Prevention of skinning
- Improved wetting
- Prevention of settlement
- Reduction of dispersing time
- Reworking of thickened batches
- Removal of floatation phenomena
- Promotion of flow and gloss

Mode of action: The multifunctionality of **ANTIGEL[®] KF-D** is based on the synergistic activity of the components.

1. Viscosity stabilisation

The stabilisation is based on the oxygen binding properties of the antioxidant. **ANTIGEL[®] KF-D** improves flow and through-drying.

2. Wetting and dispersion

The wetting component of **ANTIGEL[®] KF-D** reduces the interfacial tension between the usually hydrophilic pigments and the hydrophobic binder. The pigments are well distributed resulting an optimum depth of colour. Dispersion time, floatation phenomena and sedimentation are reduced and gloss is increased. Sedimentation is largely avoided. Because of the excellent wetting, optimum depth of colour is achieved.

3. Preparation of thickened batches

Often thickened batches can be worked up by the addition of 4.0 – 6.0 % **ANTIGEL[®] KF-D**, calculated on solids content. It is necessary to disperse **ANTIGEL[®] KF-D** thoroughly.

Applications: **ANTIGEL[®] KF-D** can be used in almost all water-based and solvent borne coating systems.

Technical data:
(Guide values)

Appearance	:	clear, colourless to light yellowish liquid
Density (ISO 2811-1)	:	0.94 g/cm ³
Flash point (ISO 1523)	:	> 60 °C

The above information is based on our current knowledge and experience. No binding assurance in respect of certain properties or suitability for certain applications must be read into our information. Patent rights and other proprietary rights must be observed if necessary. Further safety instructions please learn from our material safety data sheet. 04/2015

Processing: **ANTIGEL® KF-D** should be added to the mill base in order to get optimum use of its wetting properties. It is recommended to establish the dosage by preliminary experiment.

ANTIGEL® KF-D is a highly suitable multifunctional additive and can be used up to 15.0 % on solids content depending on the field of application. When mainly used as anti-skinning additive, 0.5 - 1.5 % dosage are recommended. For regeneration of thickened batches an amount of 5.0 % should be used and 2.5 % - 15.0 % as dispersing additive.

Storage: Keep **ANTIGEL® KF-D** in a cool, well-ventilated place. Occasionally, slight sediment is formed, which does not adversely affect the quality of **ANTIGEL® KF-D**. There is no need to stir up the sediment.

Subject to appropriate storage, the described properties of **ANTIGEL® KF-D** remain stable for at least 2 years, provided the original container is closed after use.

Packaging: 50 kg / 175 kg drum

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