

ANTIGEL[®] EL1717

Multifunctional additive with good wetting and dispersing properties for solvent borne and water-based coating systems

Chemical base: Antioxidant with additives in solvent mixture

Properties: **ANTIGEL[®] EL1717** has the following properties:

- Stabilisation of viscosity (in oxidative drying systems)
- Retardation of skinning
- Improved wetting
- Prevention of settlement
- Reduction of dispersing time
- Reworking of thickened batches
- Removal of floatation phenomena
- Promotion of gloss and flow

Mode of action: The multifunctionality of **ANTIGEL[®] EL1717** is based on the synergistic activity of the components.

1. Viscosity stabilisation

The stabilisation is based on the oxygen binding properties of the antioxidant. The film is longer open and flow and through drying are promoted.

2. Wetting and dispersion

The wetting component reduces the interfacial tension between the usually hydrophilic pigments and the hydrophobic binder, and a good distribution of the pigments into the system is the result. Reduction of dispersion time is possible in some cases. Floatation phenomena 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[®] EL1717**, calculated on solids content. It is necessary to disperse **ANTIGEL[®] EL1717** thoroughly.

Applications: **ANTIGEL[®] EL1717** is mainly used in solvent containing systems based on alkyds, alkyd / melamine, nitrocellulose combinations and polyesters. The above mentioned properties of **ANTIGEL[®] EL1717** are also suitable for coating systems based on alkyds, alkyd/acrylic and other systems.

Technical data:
(Guide values)

Appearance	:	light brownish to brown liquid
Density (ISO 2811-1)	:	0.85 g/cm ³
Flash point (ISO 1523)	:	27 °C

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- Processing:** **ANTIGEL® EL1717** should be added to the millbase in order to get optimum use of its wetting properties. It is recommended to establish through preliminary experiment the optimum dosage. An addition of 0.5 - 1.5 % calculated on total formulation is common. 4.0 – 6.0 % calculated on the solids content is used when reworking thickened batches.
- Storage:** Keep **ANTIGEL® EL1717** in a cool, well-ventilated place. Occasionally, slight sediment is formed. There is no need to stir up the sediment. **ANTIGEL® EL1717** contains a natural raw material, which can lead to variations of the color tone. In both cases the quality is not adversely affected.
- Subject to appropriate storage, the described properties of the described properties of **ANTIGEL® EL1717** 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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