

Formulation Additives

Technical Data Sheet

Loxanol[®] CA 5310 (old: Loxanol[®] EFC 100)



Product Description

Loxanol[®] CA 5310 Emission Free Coalescent was developed for coatings formulations with less than 50 g/l VOC. It is produced from renewable raw materials and can replace traditional VOC contributing coalescent.

Traditional coalescent vaporize in the air during the drying process and contribute towards VOC (Volatile Organic Compounds). However, Loxanol[®] CA 5310 remains in the paint film to provide a long lasting coalescing effect and at the same time increasing the total solids content of the system.

Loxanol[®] CA 5310 is supplied as a 100% active pale yellow liquid.

Loxanol[®] CA 5310 not only reduces the VOCs of the paint, but also improves key performance properties.

Chemical Composition

Produced from renewable raw materials, it can replace traditional VOC contributing coalescent.

Typical Properties

Properties

Appearance	Clear to slightly hazy, yellow liquid
Viscosity (ISO 2555)	~ 25 – 35 mPa s
Acid value, meq (ISO 660)	5 max. KOH/g
Saponification value (ISO 3657)	~ 165 – 170
Density (25° C) (ISO 2811-3)	~ 0.89 – 0.92 g/ml
Moisture (%) (Water content acc. to Karl Fischer) (ISO 4317)	~ 0 – 0.30

Typical Characteristics

Activity, %	100
Color, Gardner (ISO 4630)	6 max.
Acid Value	5
Moisture	0.01 %

These typical values should not be interpreted as specifications.

Applications

Loxanol® CA 5310 has the following key performance properties:

- Does not contribute to the VOC content of the paint
- Low odor
- Improved scrub resistance
- Good low-temperature cure
- Higher gloss values
- Improved Rheology modifier efficiency
- Good color acceptance / color development
- Non-yellowing
- Non-hazardous and based on renewable resources

Loxanol® CA 5310 is recommended for use in Architectural Coatings, Industrial Coatings, Construction and Building Products. We expect to find more utility for Loxanol® CA 5310 in other areas requiring an efficient coalescent.

Dosage

Loxanol® CA 5310 at a level of 1 percent to 2 percent, based on total paint, provides a good balance of performance and application properties. We recommend determining the optimum level of Loxanol® CA 5310 to achieve the desirable performance.

The optimum level can be determined by the minimum film formation temperature (MFFT) bar. Loxanol® CA 5310 can be blended with other coalescent to optimize the balance between VOC and desired performance.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Loxanol® CA 5310.

Storage

Loxanol® CA 5310 is subject to appropriate storage under the usual storage and temperature conditions; our products are durable for at least 2 years. Loxanol® CA 5310 is packaged in 55 gallon (200 liter) open-head, polyethylene / fiber composite drums. Storage in a cool, dry place away from direct heat is recommended. If Loxanol® CA 5310 was subjected to freezing temperatures during storage, warm to room temperature and mix thoroughly before using.

Important

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