

Formulation Additives

Technical Data Sheet

Loxanol[®] CA 5320 (old: Loxanol[®] EFC 200)



Product Description

Loxanol[®] CA 5320 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 5320 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 5320 not only reduces the VOCs of the paint, but also improves key performance properties like scrub resistance as it is hydrophobic and improves the quality of coalescence.

Chemical Composition

Propylene glycol monoester of predominantly C-19 fatty acids

Properties

Product Specifications

Appearance	Clear light yellow liquid
Viscosity at 25° C (ISO 2555)	40 - 60 mPa s
Acid value, meq (ISO 660)	5 max. KOH/g
Saponification value (ISO 3657)	155 – 170
Density at 25° C	0.89 – 0.92 g/ml

Typical Characteristics

Color, Gardner (ISO 4630)	3 max.
Moisture	1.0% max.

These typical values should not be interpreted as specifications.

Applications

Loxanol® CA 5320 has the following key performance properties:

- Excellent efficiency in reducing the minimum film forming temperature (MFFT)
- Improved rheology modifier efficiency
- Improved scrub resistance
- Gloss enhancement
- Non-yellowing
- Extremely low VOC content under strictest rules
- Very low odor
- Non-hazardous
- Based on renewable resources, ecologically friendly

Loxanol® CA 5320 is recommended for use in Architectural Coatings, Industrial Coatings, Construction and Building Products. We expect to find more utility for Loxanol® CA 5320 in other areas like printing inks, adhesives, floor finishes, carrier liquids and oil drilling.

Dosage

Loxanol® CA 5320 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 5320 to achieve the desirable performance.

The optimum level can be determined by the minimum film formation temperature (MFFT) bar. Loxanol® CA 5320 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 5320.

Storage

Loxanol® CA 5320 is subject to appropriate storage under the usual storage and temperature conditions; our products are durable for at least 2 years. Loxanol® CA 5320 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 5320 was subjected to freezing temperatures during storage, warm to room temperature and mix thoroughly before using.

Important

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BASF Corporation
Dispersions and Pigments
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: edtech_info@basf.com
www.basf.us/dpsolutions