Kusumoto Chemicals, Ltd.

DISPARLON® PFA-231

Anti-Sagging/Anti-Settling Agent for Solvent-borne Systems

TECHNICAL DATA SHEET
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DISPARLON® PFA-231 is a paste-form thixotropic agent consisting of a specially prepared amide wax activated in aromatic-free solvents. DISPARLON® PFA-231 is easily incorporated into various vehicles and/or solvents, developing an exceptionally strong thixotropic structure with long-term stability.

TYPICAL PROPERTIES

The following figures are typical properties, not to be used for specification.

Appearance	Light yellow paste
Non-volatile matter	20 wt%
Solvent	Alkylcyclohexane / Ethanol / 2-Propanol

ADVANTAGES

- Provides strong anti-sagging and anti-settling effects.
- Improves the orientation of metallic pigments.
- Ready-to-use (no activation required).

APPLICATION

DISPARLON® PFA-231 can be used in almost all solvent-borne synthetic resin coatings. It is particularly recommended for heavy-duty paints including epoxies, tar-epoxies, urethanes, chlorinated rubbers, vinyls, unsaturated polyesters, acrylics and baking enamels (e.g., acrylic-melamine for automotive topcoats)

INCORPORATION

Addition levels

Recommended dosage level is 1.0–5.0 wt% for anti-sagging and 0.5–2.0 wt% for anti-settling (based on total formulation). However, dosage levels may fall outside these ranges depending on your formulation.
The optimal level should be determined under actual use conditions.

Method

Addition using a high-speed dissolver is recommended.

Dispersing temperature

The amide component may form particles if it is dissolved into a formulation and later precipitated during the dispersing process. The standard dispersing temperature is between room temperature and 50 °C to prevent particle generation. Care must be taken with the dispersing temperature because particles may occur at the upper end of the standard temperature range if a formulation contains a large amount of polar solvent.

STORAGE

Particles may form in the paste during storage at a low temperature below 15 °C because of the crystallization of its ingredients. In such cases, please warm the vessel in a heating chamber at 35–40 °C for 24 to 48 hours just before use.

CAUTION

Amide wax may cause low surface tension. Ensure recoatability is checked, especially in alkyd-melamine or oil-modified alkyd baking systems.

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