

NUOSPERSE® FX 365

Wetting and Dispersing Agent

GENERAL INFORMATION

NUOSPERSE FX 365 is a nonionic polymeric wetting and dispersing agent for use in waterborne coating and ink formulations and pigment pastes.

NUOSPERSE FX 365 shows outstanding pigment wetting and stabilizing properties.

CHEMICAL & PHYSICAL PROPERTIES

Appearance 20 °C	clear liquid
Active content	90 %
Density (ISO 2811-2)	approx. 1110 kg/m ³
Viscosity, 20 °C (ASTM D 2196)	approx. 850 mPa.s
Solubility	soluble in water and all regular solvents
Ionic character	nonionic

These are typical properties not to be used for specification purposes.

APPLICATIONS

- **NUOSPERSE FX 365** is composed of a nonionic AB-polymer with hydrophilic polyether segments and an electron-rich hydrophobic backbone. It is APE free.
- This unique amphiphilic composition accounts for the strong affinity of **NUOSPERSE FX 365** for various interfaces.
- The strong adsorption onto solid substrates such as pigments and extenders results in both excellent pigment wetting and dispersing properties.
- Since **NUOSPERSE FX 365** is nonionic it may be used in combination with anionic, nonionic or even cationic surfactants.
- **NUOSPERSE FX 365** is applicable in practically all types of aqueous coatings or pigment pastes.
- As **NUOSPERSE FX 365** does not ionise in water, it is recommended to use it in conjunction with a polyelectrolyte dispersant, such as NUOSPERSE® FX 504 or FX 600, in aqueous dispersions of hydrophilic pigments. For hydrophobic pigments, including inert organic pigments, **NUOSPERSE FX 365** can be used as single dispersant and stabilizer.

KEY PROPERTIES

FEATURE	CONSEQUENCE
<ul style="list-style-type: none"> • Polymeric amphiphilic structure 	<ul style="list-style-type: none"> - optimizes colour development - prevents flocculation - allows highest pigment loading
<ul style="list-style-type: none"> • NO-VOC, low odour APE-free 	<ul style="list-style-type: none"> - can be used in NO-VOC, low odour paints and pigment concentrates

INCORPORATION

The product is preferably added prior to the dispersion stage.

The quantity is strongly dependent on the composition of the coating or pigment paste formulation and should be determined experimentally.

LEVELS OF USE

For use in coatings in general, a concentration of 0.2 to 1.0 % on total weight in the formulation will give satisfactory results.

For pigment dispersions a dosage of 2 to 10 % is recommended. Starting formulations for aqueous and universally applicable pigment dispersions are available upon request.

As the composition of coatings vary enormously it is highly recommended to check applicability in each case separately.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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SHELF LIFE

NUOSPERSE FX 365 has a shelf life of 3 (three) years from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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