

## 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.

### PHYSICAL PROPERTIES

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

### APPLICATION AND PROPERTIES

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

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

365 can be used as single dispersant and stabilizer.

### 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. 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.

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

## **HEALTH AND SAFETY DATA**

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage.

## **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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