

## Pigment Dispersing Agent

### GENERAL INFORMATION

NUOSPERSE® FX 600 is a highly effective pigment dispersing agent for use in waterborne industrial coatings, protective coatings, gloss dispersion paints, colorants and also printing inks. The product is a liquid, multi-functional polymer and is free of organic solvents.

### PHYSICAL PROPERTIES

Appearance 20 °C	Clear liquid / slightly hazy liquid
Active content	Approx. 25 %
Density, 20 °C (ISO 2811-2)	Approx. 1045 kg/m <sup>3</sup>
Viscosity, 20 °C (ASTM D 2196)	Approx. 1600 mPa.s
pH (ASTM D 1172)	8.5 - 9.5
Colour	Colourless to yellowish
Solubility	Soluble in water

### APPLICATION AND PROPERTIES

The multi-functional structure of NUOSPERSE® FX 600 ensures a strong interaction with a wide range of pigments. NUOSPERSE® FX 600 dispersant is not only strongly adsorbed onto inorganic pigments such as titanium dioxide and iron oxides (yellow, red or black) but also onto organic pigments such as fast red, quinoid magenta, phthalic blue and -green. It is also effective with carbon black and extenders. The strong interaction and the unique polymer structure of NUOSPERSE® FX 600 result in optimised stabilisation of pigments in aqueous systems.

NUOSPERSE® FX 600 is suitable for use with a wide variety of binders such as baked acrylic dispersions, air-drying alkyds, polyester-melamines, 2-pack epoxies, acrylates, etc.

NUOSPERSE® FX 600 is also used in pigment concentrates for tinting paints, leather finishes, textiles, plastics, inks, and other similar coatings systems.

The main features of NUOSPERSE® FX 600 are:

### FEATURE CONSEQUENCE

- Optimised stabilisation against pigment flocculation
  - high gloss levels
  - optimal opacity
  - consistent quality
  - improved corrosion resistance
- Improved pigment wetting
  - shorter grinding times
  - cost savings
  - reduced pigment costs
- Strongly adsorbed on pigment surface
  - optimises stability
  - optimal opacity
- Excellent compatibility with a wide range of binders
  - high gloss levels
  - improved film appearance
- Buffers pH
  - consistent quality

### INCORPORATION

For maximum efficiency, NUOSPERSE® FX 600 is added prior to the grinding stage. The ideal procedure is to dissolve NUOSPERSE® FX 600 in the aqueous medium before the addition of the pigments and extenders.

We recommend the following dosage of

NUOSPERSE® FX 600 as a starting point:

as a pigment dispersant in paint: 0.5 % to 2.0 % on total formulation.

as a pigment dispersant in printing inks: 0.5 to 3.0% on total formulation.

as a dispersant/vehicle in pigment concentrates: 1 to 15 % on total weight of the pigment concentrate.

As the composition and production procedures of coatings vary enormously, it is recommended to check applicability in each case separately

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## 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 600 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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