

## NUOSPERSE® 2006

### Wetting and Dispersing Agent

#### GENERAL INFORMATION

**NUOSPERSE 2006** is an organic-solvent free, anionic, surface active compound which can be used as a wetting agent in aqueous as well as organic-solvent borne systems. It has excellent substrate wetting properties.

#### CHEMICAL & PHYSICAL PROPERTIES

Appearance 20 °C	clear liquid
Colour (DIN-EN 1557)	max. 100 Apha
Ionic character	anionic
Anion active content	62-65%
Dry content	75 - 78
pH solution, 1.5 % (ASTM D 1172)	5 - 7
Density, 20 °C (ISO 2811-2)	approx. 1090 kg/m <sup>3</sup>
Viscosity	approx. 450 mPa.s

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

#### APPLICATIONS

- **NUOSPERSE 2006** is a highly effective multi-purpose auxiliary for the production of paints and lacquers.

#### KEY PROPERTIES

FEATURE	CONSEQUENCE
• Reduces surface tension to extremely low levels	- speeds up wetting of pigments and substrates
• Keeps surfactants of universal colorants from being adsorbed by the coloured base paint	- improves compatibility with universal colorants
• Solubilizes water in a polar solvents	- reduces phase separation
• No organic solvent	- environmentally friendlier coatings
• Reduces resistance of electrostatic spray paint	- allows for better application of spray coatings

#### INCORPORATION

##### Compatibility with universal colorants:

In many cases, **NUOSPERSE 2006** improves the compatibility between paint bases and universal colorants. **NUOSPERSE 2006** is used for this purpose in both dispersion and alkyd paints. Usually a concentration between 0.3 and 1.0 % **NUOSPERSE 2006**, calculated on the total weight of paint will give satisfactory results and reduce the risk of rub-out or flocculation.

**NUOSPERSE 2006** is preferably added before the grinding process of the pigments used in the base paint.

##### Waterborne pigment concentrates:

Pigment concentrates based on **NUOSPERSE 2006** in combination with **NUOSPERSE 2008** [1:4] are used for the shading of aqueous coatings such as flat and gloss dispersion paints, paper coatings, waterborne industrial paints etc. Normally up to 10% of the pigment slurry may be added to the coating.

##### Resistance reducing action:

In electrostatic spray paints, **NUOSPERSE 2006** is used to reduce the resistance. A concentration of maximum 1.5 % calculated on the total paint is in most cases sufficient to obtain a low resistance.

It is recommended to add **NUOSPERSE 2006** prior to the dispersing process because in this way the wetting properties of the product are utilised as well.

##### Various other uses:

In dispersion paints **NUOSPERSE 2006** can be used as a wetting agent for hydrophobic pigments. Prior to the dispersing process, 0.1 - 1.0 % of **NUOSPERSE 2006** calculated on the weight of the pigment concentrate should be added. The surface active properties of **NUOSPERSE 2006** will ensure that an optimum dispersing effect is obtained and hence a better colour intensity.

Pigments coated with **NUOSPERSE 2006** will have improved wetting with water.

**NUOSPERSE 2006** improves paint flow properties, especially in systems containing only a little solvent. For this, a concentration of ca. 0.5 % calculated on the weight of the paints is recommended.

In water borne inks, it may be used to enhance flow and levelling on hard to wet-out surfaces.

*continued...*

## NUOSPERSE® 2006

### 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.

### SHELF LIFE

**NUOSPERSE 2006** has a shelf life of 2 (two) 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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