

NUOSPERSE® FA 182

Wetting and Dispersing Agent

GENERAL INFORMATION

NUOSPERSE FA 182 is an anionic surface active compound which can be used as a wetting agent in dispersion paints. The product also reduces the resistance of electrostatic spray paints.

NUOSPERSE FA 182 may be applied in both organic and aqueous systems.

CHEMICAL & PHYSICAL PROPERTIES

Appearance 20 °C	Clear liquid
Colour (DIN-EN 1557)	max. 100 Apha
Ionic character	anionic
Active content	65 ± 1.0
Density (bulk) 20 °C (ISO 2811-2)	approx. 1000 kg/m ³
Viscosity, 25°C (ASTM D 2196)	approx. 100 mPa.s
Flash Point (ASTM D 6450)	29 - 31 °C

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

APPLICATIONS

- **NUOSPERSE FA 182** is a highly effective multi-purpose auxiliary in 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
• Reduces resistance of electrostatic spray paint	- allows for better application of spray coatings

INCORPORATION

Compatibility with universal colorants:

In many cases, **NUOSPERSE FA 182** improves the compatibility between paint bases and universal colorants. For this purpose, **NUOSPERSE FA 182** is used in both dispersion paints and in alkyd paints. Usually a concentration between 0.3 and 1.0 % **NUOSPERSE FA 182**, calculated on total weight of paint will give satisfactory results and reduce the risk of rub-out or flocculation.

NUOSPERSE FA 182 is preferably added before the grinding process of the pigments used in the base paint.

Resistance reducing action:

In electrostatic spray paints, **NUOSPERSE FA 182** 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 FA 182** prior to the dispersing process because in this way the wetting properties of the product are utilised as well.

Viscosity reducing power:

In chlorinated rubber paints, **NUOSPERSE FA 182** has viscosity reducing properties, therefore it reduces the tendency of cob-webbing.

Recommended concentration to be used:

0.5 - 1.0 % calculated on the total rubber weight of the chlorinated rubber.

Various other uses:

In dispersion paints **NUOSPERSE FA 182** can be used as a wetting agent for hydrophobic pigments.

Prior to the dispersing process, 0.1 - 1.0 % of **NUOSPERSE FA 182** calculated on the weight of the pigment concentrate should be added.

The surface active properties of **NUOSPERSE FA 182** will ensure that an optimum dispersing effect is obtained and hence a better colour intensity.

Pigments coated with **NUOSPERSE FA 182** will have improved wetting with water.

NUOSPERSE FA 182 improves the paint flow, especially in systems containing only a little solvent. A concentration of ca. 0.5 % calculated on the weight of the paint is recommended.

In some cases **NUOSPERSE FA 182** improves the adhesion and spreading of paints on metal surfaces.

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

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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 FA 182 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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V01 Aug. 2018

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