

Pigment Dispersing Agent

GENERAL INFORMATION

NUOSPERSE FA 196 is a highly concentrated liquid pigment dispersing agent for application in organic solvent-borne systems. NUOSPERSE FA 196 is especially recommended for application as a dispersing agent for carbon black, for thermoplastic acrylic systems and as an auxiliary product to improve the action of universal tinting pastes in basic alkyd paints.

PHYSICAL PROPERTIES

Appearance 20 °C : clear liquid
 Active content : 100 %
 pH, 1 % solution in water
 (ASTM D 1172) : 5.0 – 6.0
 Density, 20 °C
 (ISO 2811-2) : approx. 1040 kg/m³
 Viscosity, 25 °C
 (ASTM D 2196) : max. 1200 mPa.s
 Colour, 25% solution in water
 (DIN-EN 1557) : max. 150 Alpha
 Solubility : soluble in water and
 most organic solvents
 Composition : surface active compound
 Ionic character : anionic

APPLICATION AND PROPERTIES

NUOSPERSE FA 196 is applicable in practically all organic solvent-borne paint and ink systems e.g., oxidatively drying systems, and thermoplastic systems.

Feature

- Strong adsorption on a wide range of pigment surfaces

Consequence

- improved colour development
- better and faster dispersion
- reduced rub-up and colour float
- improved compatibility of universal colorants
- absorbs onto a wide variety of pigments
- enables the replacement of several more specific dispersants with just one product

- Multi-functional Character

- 100% active matter
- solvent-free
- highest effectiveness

- As a dispersing agent for carbon black:
 An addition of ca. 1 % of NUOSPERSE FA 196, calculated on the total quantity of the milling paste improves the colouring power and counteracts flocculation of various types of carbon black. NUOSPERSE FA 196 must be added before the dispersing process.

- As a pigment dispersing agent in thermoplastic acrylic systems and in non-aqueous dispersions:
 In both of the above mentioned systems, NUOSPERSE FA 196 gives the following advantages:
 - Higher gloss
 - Better colouring power
 - Better and quicker dispersion

The product must be applied at a dosage of ca. 1.0 % calculated on the milling paste, before the dispersing process.

(continued)

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- As an auxiliary product to improve the performance of universal tinting pastes in standard alkyd paint:

NUOSPERSE FA 196 forms a bridge between the alkyd paint and the universal tinting paste, which results in better flow, colouring power, gloss and stability.

The required dosage of NUOSPERSE FA 196 is 0.2 – 0.4 % calculated on the total quantity of alkyd paint.

- As a wetting agent in paint removers and brush cleaners:

NUOSPERSE FA 196 improves the penetration of the paint remover into the paint layer and of the brush cleaner into the brush. We recommend a dosage of 2 – 6 % calculated on the total amount of the paint remover or brush cleaner.

- As a wetting agent in universal pigment dispersions:

Pigment dispersions based on NUOSPERSE FA 196 in combination with NUOSPERSE FN 265 are used for the shading of various coatings, such as dispersion paints and alkyd paints etc. Normally up to 10% of the pigment slurry may be added to the coating.

- As a wetting / dispersing agent in solvent based inks:

Pigment dispersions based on NUOSPERSE FA 196 provide the following advantages:

- Better pigment wetting;
- Better colour strength;
- Better flow.

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS' can be found on the company website at www.elementis-specialties.com.

SHELF LIFE

NUOSPERSE FA 196 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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