

Pigment Dispersing Agent

GENERAL INFORMATION

Pigment dispersing agent NUOSPERSE® FX 9086 is designed for use in pigment pastes and provides extremely stable pigment dispersions for use in a wide range of solvent borne coatings.

PHYSICAL PROPERTIES

Appearance	: clear liquid
Active matter	: approx. 50%
Density 20°C (DIN 53217/3)	: approx. 1015 kg/m ³
Viscosity 25°C (ASTM D2196)	: approx. 200 mPa.s
Solubility	: soluble in xylene, butanol, white spirit and various aromatic and aliphatic solvents. Insoluble in water
Flash point (ASTM D93)	: approx. 42°C
Composition	: polymeric surfactant dissolved in methoxy propyl acetate

APPLICATION AND PROPERTIES

NUOSPERSE® FX 9086 is a unique AB-copolymer, specially designed for use as a pigment dispersing agent with maximum stabilising properties against flocculation. These properties make NUOSPERSE® FX 9086 of special interest for applications in pigment dispersions, tinters or colorants, used for tinting purposes in a broad spectrum of paints.

The polymeric character of NUOSPERSE® FX 9086 and the presence of multifunctional adsorbing anchoring groups in the same molecule guarantee a strong interaction with the pigment surface.

NUOSPERSE® FX 9086 is adsorbed onto various pigment surfaces. In addition the inclusion of aliphatic chains prevent flocculation by entropic repulsion.

The NUOSPERSE® FX 9086 structure is compatible with practically all binder systems, aliphatic as well as aromatic and has been designed for use in high quality pigment pastes.

Feature

- reactive anchoring groups
- polymer backbone
- optimal colour development
- reduced sedimentation
- optimised gloss and opacity
- maximum pigment loading

Consequence

- irreversible adsorption onto pigments
- provides longterm tinter stability
- reduced raw material costs
- easy handling
- high quality
- also applicable for full tones

For the production of pumpable tinters it is not necessary to use a resin or other dispersing agent in conjunction with NUOSPERSE® FX 9086.

The tinters are applicable to the following coating systems:

- long oil alkyds
- alkyd melamines
- epoxy polyamides
- acrylics
- poly urethanes
- nitrocellulosics
- vinyls

Multifunctional pigment affinic groups coupled with the molecule structure enable NUOSPERSE® FX 9086 to disperse and stabilise inorganic as well as organic pigments.

(continued)

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The information in this publication is intended to serve as guide but is not necessarily complete and is given without warranty. We recommend all users to determine the suitability of our products for their intended uses and caution them to comply with statutory obligations and to avoid infringing rights of third parties. We encourage users to contact us to discuss problems involving our products in order to facilitate their use.

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DOSAGE

NUOSPERSE® FX 9086 should be added to the solvent or binder/solvent mixture before pigment addition. The quantity to be added should be determined experimentally and depends, among other factors, on pigment surface characteristics, the solvent and in some cases the binder used and the required coating performance.

As a dispersing agent for pigment paste or tinter NUOSPERSE® FX 9086 should be used in concentrations between 5 and 35% (calculated on the total weight of paste or tinter).

• EXAMPLES

1. Organic red
40% White Spirit
30% NUOSPERSE® FX 9086
30% Irgazinred DPP BO
100%
2. Phtalocyaninblue
45% White Spirit
30% NUOSPERSE® FX 9086
25% Heliogen Blue L 6910 LF
100%
3. Iron Oxide Yellow
28% White Spirit
12% NUOSPERSE® FX 9086
60% Bayferrox 3920
100%

Additional starting formulations can be supplied on request.

HANDLING & SAFETY

Detailed information on handling and safety for each product is included in the relevant Material Safety Data Sheet, available for each product.

QUALITY ASSURANCE

Since 1992 the company is holder of the ISO 9001 certificate, which guarantees that all operations are conducted according to the stipulated standards.

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