DENSURF DA 4010

Dispersing Agent

PRODUCT DESCRIPTION

Densurf DA 4010 is developed for dispersion of organic pigments, especially carbon-black in solvent-based and solvent-free systems.

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- Prevents flocculation with steric effects and keeps the system stable.

APPLICATIONS

- General Indusrial Coatings
- Printing Inks
- Wood Coatings
- Protective Coatings
- Automotive Coatings

SOLUBILITY

Water	●	Aliphatic Hydrocarbon	●
Ethyl Alcohol	●	Butyl Acetate	●
Butyl Alcohol	●	Xylene	●
MPA	●	Dibasic Ester	●

● *Soluble* ◐ *Partly Soluble* ○ *Not Soluble*

PROCESS RECOMMENDATION

- The additive should be added into the millbase and premixed in the binder or solvent before the pigment is added.

STORAGE

- Store between 5°C-35°C.
- The shelf life is at least 12 month from the date of manufacture when stored at recommended conditions.
- Close the packaging cap tightly after use.
- WARNING! Keep away from acids, heat and moisture.

TECHNICAL PROPERTIES

- **Chemical Structure:** Polyether modified copolymer
- **Solid Content (5 min., 160˚C):** 98.5 ±1.0%
- **Appearance:** Yellow clear liquid
- **Density (20˚C):** 1.571 ±0.020 g/ml
- **Viscosity (25 °C):** 28900 ±2000 mPas
- **Acid Value:** 6 ±2 mg KOH/g
- **Amine Value:** 15 ±2 mg KOH/g

SYSTEMS

Long Oil Alkyd	●	Polyester	●
Short/Medium-Oil Alkyd	●	Aldehyde Resin	●
Thermoplastic Acrylic	●	Acrylic PU	●
Epoxy	◐	Epoxy (solvent-free)	○

● *Suitable* ◐ *Partly Suitable* ○ *Not Suitable*

PIGMENTS

Titanium dioxide	◐	Inorganic Pigment	◐
Carbon Black	●	Organic Pigment	●
Extender	◐		

● *Suitable* ◐ *Partly Suitable* ○ *Not Suitable*

DOSAGE

Titanium dioxide: 2.0-4.0% (by weight as supplied based on pigment amount)
Inorganic pigments: 15.0-25.0% (by weight as supplied based on pigment amount)
Extenders: 0.5-1.5% (by weight as supplied based on pigment amount)
Co-grinding systems: 0.5-2.0% (by weight as supplied based on pigment amount)
Organic pigments: 15.0-35.0% (by weight as supplied based on pigment amount)
Carbon Black: 30.0-60.0% (by weight as supplied based on pigment amount)

Note: Amounts mentioned above are just a recommendation. Please make laboratory tests to specify the optimum amounts.

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Our technical data sheets provide directions for the application possibilities of our products. Our recommendations are in line with our present state of knowledge and do not provide any guarantee.

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