

# DENSURF DA 4123

## Dispersing Agent

### PRODUCT DESCRIPTION

Densurf DA 4123, is developed for dispersion of inorganic and organic pigments, especially inorganic pigments in solvent-based systems.

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

### APPLICATIONS

- General Industrial Coatings
- Printing Inks
- Wood Coatings
- Protective Coatings

### SOLUBILITY

Water	<input type="radio"/>	Aliphatic Hydrocarbon	<input checked="" type="radio"/>
Ethyl Alcohol	<input checked="" type="radio"/>	Butyl Acetate	<input checked="" type="radio"/>
Butyl Alcohol	<input checked="" type="radio"/>	Xylene	<input checked="" type="radio"/>
MPA	<input checked="" type="radio"/>	Dibasic Ester	<input checked="" type="radio"/>

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 24 months 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):** 70.5 ±1.0 %
- Appearance:** Yellow clear liquid
- Density (20 °C):** 1.120 ±0.020 g/ml
- Viscosity (25 °C):** 1800 ±500 mPas
- Acid Value:** 6 ±2 mg KOH/g
- Amine Value:** 12 ±2 mg KOH/g
- Solvent:** Dibasic Ester

### SYSTEMS

Long Oil Alkyd	<input checked="" type="radio"/>	Polyester	<input checked="" type="radio"/>
Short/Medium-Oil Alkyd	<input checked="" type="radio"/>	Aldehyde Resin	<input checked="" type="radio"/>
Thermoplastic Acrylic	<input checked="" type="radio"/>	Acrylic PU	<input checked="" type="radio"/>
Epoxy / Solvent-based	<input type="radio"/>		
Epoxy / Solvent-free	<input type="radio"/>		

Suitable   
  Partly Suitable   
  Not Suitable

### PIGMENTS

Titanium dioxide	<input checked="" type="radio"/>	Inorganic Pigment	<input checked="" type="radio"/>
Carbon Black	<input type="radio"/>	Organic Pigment	<input type="radio"/>
Extender	<input checked="" type="radio"/>		

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.*