

# DENSURF DA 412

## Dispersing Agent

### PRODUCT DESCRIPTION

DENSURF DA 412 is developed for dispersion of inorganic pigments and fillers.

- Prevents flocculation with steric effects and keeps the system stable.
- Uses for both solvent-free and solvent-based systems
- Increases gloss of top coats

### APPLICATIONS

- General Industrial Coatings
- Wood Coatings
- Protective Coatings
- Floor Coatings

### SOLUBILITY

Water	<input type="radio"/>	Aliphatic Hydrocarbon	<input 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"/>	Cosolvent	<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 in the unopened original packaging 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:** Copolymer of carboxylic acid ester
- **Solid Content (5 min., 125 °C):** 98.00 ± 2.00 %
- **Appearance:** Yellow/colorless clear liquid
- **Density (20 °C):** 1.12 ± 0.02 g/mL
- **Viscosity (25 °C):** 1500.00 ± 500.00 mPa.s
- **Acid Value:** 100.00 ± 10.00 mg KOH/g

### SYSTEMS

Long Oil Alkyd	<input type="radio"/>	Polyester	<input checked="" type="radio"/>
Short/Medium-Oil Alkyd	<input checked="" type="radio"/>	Nitrocellulose	<input type="radio"/>
Thermoplastic Acrylic	<input checked="" type="radio"/>	Acrylic PU	<input checked="" type="radio"/>
Epoxy	<input checked="" 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:** 2.00 - 3.00 % (by weight as supplied based on pigment amount)

**Inorganic pigments:** 10.00 - 20.00 % (by weight as supplied based on pigment amount)

**Extenders:** 0.30 - 0.80 % (by weight as supplied based on pigment amount)

**Co-grinding systems:** 0.30 - 1.00 % (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.*