DENSURF DA 413

Dispersing Agent

PRODUCT DESCRIPTION

DENSURF DA 413 is developed as dispersing agent for solvent-based paints and coatings.

- Reduces millbase viscosity when used with inorganic pigments and fillers.
- Prevents flocculation with steric effects and keeps the system stable.

APPLICATIONS

- General Indusrial Coatings
- Wood Coatings
- Protective Coatings

SOLUBILITY

Water	○	Aliphatic Hydrocarbon	○
Ethyl Alcohol	●	Butyl Acetate	●
Butyl Alcohol	●	Xylene	●
MPA	●		

● *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 solution of carboxylic acid ester
- **Solid Content (10 min., 160 °C):** 50.00 ± 1.00 %
- **Appearance:** Yellow/colorless clear liquid
- **Density (20 °C):** 0.98 ± 0.02 g/mL
- **Viscosity (25 °C):** 50.00 ± 5 mPa.s
- **Acid Value:** 55.00 ± 5.00 mg KOH/g
- **Solvent:** Xylene/Butyl Acetate (by weight, 3/1)

SYSTEMS

Long Oil Alkyd	○	Polyester	●
Short/Medium-Oil Alkyd	●	Nitrocellulose	○
Thermoplastic Acrylic	●	Acrylic PU	●
Epoxy Systems/ Solvented	●		
Epoxy Systems / 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: 2.00 - 4.00 % (by weight as supplied based on pigment amount)
Inorganic pigments: 15.00 - 25.00 % (by weight as supplied based on pigment amount)
Extenders: 0.50 - 1.50 % (by weight as supplied based on pigment amount)
Co-grinding systems: 0.50 - 2.00 % (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.

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