

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.




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

APPLICATIONS

- General Industrial 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 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: 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
- Acid Value: 6 ±2 mg KOH/g
- Amine Value: 15 ±2 mg KOH/g




SYSTEMS

Thermoplastic Acrylic		Polyester	
Acrylic PU		Aldehyde Resin	
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.