

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): 98.50 ± 1.00 %
- Appearance: Yellow clear liquid
- Density (20 °C): 1.57 ± 0.02 g/mL
- Acid Value: 6.00 ± 2.00 mg KOH/g
- Amine Value: 15.00 ± 2.00 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: 2.00 - 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)

Organic pigments: 15.00 - 35.00 % (by weight as supplied based on pigment amount)

Carbon Black: 30.00 - 60.00 % (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.