

Densurf DA 412

Wetting & Dispersing Agent

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PRODUCT DESCRIPTION

Densurf DA 412 is a highly afinic modified polyglycol polymer used as a wetting and dispersing agent.

It's polyglycol structure allows it to be used in the wide variety of resin systems and it has a high pigment compatibility.

APPLICATIONS & KEY FEATURES

Densurf DA 412 has a strong viscosity reduction effect and applicable for the natural-oil based pigment concentrates.

The main application areas of the Densurf DA 412 are:

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

SOLUBILITY

Water	Aliphatic Hydrocarbons
	
N-Butyl Acetate	N-Butanol
	
Xylene	Ethanol
	
	
Soluble	Not Soluble

**Detailed knowledge about the suitable diluents can be asked to the technical support team. The provided diluents are the references according to the most common application areas.

STORAGE

Please store the unopened packaging between 5°C - 35°C. The shelf life is at least 24 months for unopened packagings. Close the packaging cap tightly after use.

WARNING! Keep away from the acids, the heat and the moisture.

SPECIAL NOTES

Densurf DA 412 shows a strong viscosity-reducing effect in the paint systems in which it is used and stands out particularly for its gloss properties in alkyd and topcoat epoxy floor coatings.

It can be also used in the water-based system for the excellent particle dispersion features.

TECHNICAL PROPERTIES

- Chemical Structure: Polyglycol with afinic groups
- Appearance: Clear yellow liquid
- Acid Value: 100.00 ± 10.00 mg KOH/g
- Density (20°C): 1.17 ± 0.02 g/mL
- Solid Content (10 mins., 160°C): 99.00 ± 1.00 %

SYSTEM

Long Oil Alkyd Resins



Short Oil Alkyd Resins



Epoxy Resins



Polyester Resins



Medium Oil Alkyd Resins



Acrylic Polyol Resins



Suitable

Not Suitable

**Detailed knowledge about the compatible systems can be asked to technical support team. The provided systems are the references according to the most common application areas.

DOSAGE

Titanium dioxide: 0.50 - 2.00 % (by weight as supplied based on the pigment amount)

Inorganic pigments: 5.00 - 10.00 % (by weight as supplied based on the pigment amount)

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

Co-grinding systems: 0.30 - 1.00 % (by weight as supplied based on the pigment amount)

Organic pigments: 8.00 - 20.00 % (by weight as supplied based on the pigment amount)

Carbon Black: 10.00 - 30.00 % (by weight as supplied based on the pigment amount)

PROCESS RECOMMENDATION

The additive should be added into the millbase and premixed in the binder or solvent before the pigment is added.

For the water-based applications, Densurf DA 412 should be dispersed in the water before usage.

Strict viscosity reduction can cause the unwated rheological issues. Please test the product before use.