

Densurf DA 405

Wetting & Dispersing Agent

Content Publish Date: 21.05.2026
Content Revision Date: 21.05.2026
Content Revision No : 001

PRODUCT DESCRIPTION

Densurf DA 405 is a pigment afinic material used as a wetting agent.

It supports the dispersion stability with the steric effects.

APPLICATIONS & KEY FEATURES

Densurf DA 405 is highly effective for pigment wetting. Excellent pigment wetting helps viscosity reduction and improves the color properties of the system.

The main application areas of the Densurf DA 405 are:

- General Industrial Paints
- Protective Coatings
- Wood Coatings

SOLUBILITY

Water	Aliphatic Hydrocarbons
	
N-Butyl Acetate	N-Butanol
	
Aromatic Hydrocarbons	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 405 can be used for the excellent color properties especially in the synthetic paints.

It has excellent viscosity reduction properties for the long oil alkyd resin containing systems.

TECHNICAL PROPERTIES

- Chemical Structure: Hydroxy functional acid ester
- Appearance: Clear brownish liquid
- Amine Value: 68.00 ± 3.00 mg KOH/g
- Density (20°C): 0.92 ± 0.02 g/mL
- Solid Content (10 mins., 160°C): 98.50 ± 1.50 %

SYSTEM

Long Oil Alkyd Resins



Short Oil Alkyd Resins



Medium Oil Alkyd Resins



Rapid Alkyd Resins



Methacrylate-Based 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.