

Densurf DA 4115

Wetting & Dispersing Agent

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

PRODUCT DESCRIPTION

Densurf DA 4115 is a solvent-free hyper-branched type polymer used as a wetting and dispersing agent.

It's core adheres to the surface of the pigment and the branches supports the dispersion stability.

APPLICATIONS & KEY FEATURES

Densurf DA 4115 is a highly effective for the pigment wetting and reduces the viscosity of the dispersion. Densurf DA 4115 improves the rheological properties and improves the gloss.

The main application areas of the Densurf DA 4115 are:

- Color Masterbatch
- Printing Inks
- General Industrial Paints
- Pigment Pastes

SOLUBILITY

Water	Aliphatic Hydrocarbons
	
N-Butyl Acetate	N-Butanol
	
Xylene	Methoxy Propyl Acetate
	
	
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 4115 is developed to have universal pigment compatibility for the pigment concentrates.

It has an excellent viscosity reduction effect for the high pigment loadings with the high solid content binders.

TECHNICAL PROPERTIES

- Chemical Structure: Polyglycol modified polyaziridine
- Appearance: Clear yelloow liquid
- Amine Value: 35.00 ± 2.00 mg KOH/g
- Density (20°C): 1.06 ± 0.02 g/mL
- Solid Content (10 mins., 160°C): 98.00 ± 1.00 %

SYSTEM

Thermoplastic Acrylic Resins	Polyester Resins
	
Acrylic Polyol Resins	Aldehyde Resins
	
Epoxy Resins	Ketonic 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.