



# FCD

FOAM CONTROL DISPERSION

## FCD 1100

**Water-based ink & Coatings Foam Control Dispersion**

### TECHNICAL DATA SHEET

Rev.3 Date: 23/11/2016

#### PRODUCT DESCRIPTION

FCD1100 is a 100% active dispersion of low odour mineral oils and fine silica's, specifically formulated for controlling foam in most water-based ink and coatings. FCD1100 performs excellent knock down and hold down of foam generated by the addition of water; surfactants and agitation.

FCD1100 rapidly disperses with high efficiency at small economic doses. This foam control agent is stable and effective in adverse acidic or alkaline pH conditions. FCD1100 is versatile to use during any stage of the manufacturing process and is 100% silicone oil free.

#### PHYSICAL PROPERTIES

Appearance	Opaque tan liquid
Viscosity at 25C (mPas)	>100<500
Specific gravity	0.82 - 0.88
Active solids%	100
Shelf life	The warranty period without testing is 12 months from date of manufacture, if stored in the original unopened container at 10°C to 30°C. In concentrated form this product will separate/settle during storage, this is normal, thorough agitation will remedy this and the product will still perform as required.

\*Typical product data values should not be used as specifications

#### COMMON AREAS OF USE

- All aqueous varnish
- Aqueous resin systems
- On press de-foaming applications
- Resin & latex based overprint varnish
- UV curable inks
- Pigment grinding & let down phases

#### DIRECTIONS FOR USE

As a processing additive: BIO-SIL FCD1100 can be applied as either a pre-diluted solution, or simply as a concentrate.

1. Undiluted - general agitation of the system is required until the FCD1100 is completely dispersed within the medium.
2. Pre-diluted - A pre-dilution of FCD1100 with 0.1 to 0.5 parts by weight of water, or the intended application medium, is readily dispersible, but additional agitation is still recommended. In processing applications as an additive, FCD1100 in concentrations of 10 to 500 ppm can be added under agitation until the dispersion is completely dispersed within the medium.

#### For end use

BIO-SIL FCD1100 can be added directly from the original shipped container into the foaming system provided that agitation is carried out until the dispersion is completely dispersed. A concentration in the range of 0.1 to 0.5% has been determined as a good starting amount for aqueous adhesives and polymerization applications.

## **PLEASE NOTE**

- Material safety datasheets are available upon request
- Packaging is available in the following sizes: 20KG Polyethylene containers, 160KG Polyethylene drums and 800KG Schuts cotainers
- Testing before formulating should still be carried our as systems ingredients such as resins, solvents and total solids vary in formulations