

Formulation guidelines for aqueous yellow pigmented systems

Lankem have developed a new range of dispersing agents based on our new BioLoop technology that offers improved labelling and environmental profiling.

This guide covers three areas:

- The new BioLoop dispersing agents
- Traditional dispersing agents
- Additives to produce Universal Tinting

BioLoop Dispersing Agent

The following formulations are based on our BioLoop technology and will produce compatible, stable aqueous dispersions.

The benefits of using a BioLoop product are:

Key Features

- » No skin or eye irritancy
- » Good ecotoxicity
- » Based on the BioLoop technology
- » Powerful dispersing properties
- » Low flocculation
- » VOC free



Yellow 74	%
Pigment Yellow 74	45
Lansperse LT87	7
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	43.9

Yellow 74 (0)	%
Pigment Yellow 74 (0)	44
Lansperse LT87	7
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	44.9

Traditional Surfactant Systems

Our traditional range of dispersing agents have a proven track record in terms of high performance.

Yellow 74	%
Pigment Yellow 74	44
Lansperse DS200W	6
Lansperse DS80	3
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	42.9

Yellow 74 (0)	%
Pigment Yellow 74 (0)	44
Lansperse DS200W	7
Lansperse DS80	2
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	42.9

Universal Tinting

The following Universal Tinting formulation guide will produce an aqueous-based tinter that will be compatible with both aqueous and solvent-based decorative coatings.

Yellow 74	%
Water	36.5
Smectite Clay	0.3
Lansperse DS80	3.6
Lansperse DS200W	6.2
Dfoam AR2	0.3
PEG 400	10.1
Biocide	As required
Pigment Yellow 74	28
Barium Sulphate	11
Lansperse UT57	4
Monoethanolamine	0.1



Product Profiles

- [Lansperse LT87](#) is a 80% active BioLoop dispersing agent.
- [Lansperse DS80](#) is a 80% active traditional anionic dispersing agent.
- [Lansperse DS200W](#) is a 80% active traditional nonionic dispersing agent.
- [Lansperse DIS 145](#) is an anionic powder - 100% active.
- [Lansperse UT57](#) is a powerful compatibilizer to aid dispersion - typically 93% active.
- [Dfoam AR2](#) is a non-silicone based defoamer.

Pigment Yellow 74 - Transparent

Pigment Yellow 74 (0) - Opaque

These recommendations are for guidance only and the formulator should use a ladder approach to find optimum addition levels of the dispersing agents due to difference in pigment types.