

Formulation guidelines for aqueous blue pigmented systems

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

Blue 15.3	%
Pigment Blue 15.3	45
Lansperse BIO691	8
Lansperse UT57	1
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	41.9

BioLoop Dispersing Agent

Blue 15.0	%
Pigment Blue 15.0	45
Lansperse BA6	22
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	28.9

Blue 15.3	%
Pigment Blue 15.3	45
Lansperse BA6	22
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	28.9

Traditional Surfactant Systems

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

Blue 15.0	%
Pigment Blue 15.0	45
Lansperse DS200W	11
Lansperse DS80	2
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	37.9

Blue 15.3	%
Pigment Blue 15.3	45
Lansperse DS200W	11
Lansperse DS80	2
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	37.9



Anionic surfactant system

The anionic formulation will produce pigment dispersions suitable for the mass colouration of paper, the colouration of soaps and cosmetics, household cleaners etc.

Blue 15.3	%
Pigment Blue 15.3	20
Lansperse DIS145	4.2
Lansperse UT57	3.2
Kelsan Gum	0.5
Dfoam AR2	0.1
Biocide	As required
Water	72

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.



Blue 15.3	%
Water	32.5
Smectite Clay	0.3
Lansperse DS80	2
Lansperse DS200W	5
Dfoam AR2	0.1
PEG 400	11
Biocide	As required
Pigment Blue 15.3	31
Barium Sulphate	10
Lansperse UT57	8
Monoethanolamine	0.1

Product Profiles

- [Lansperse BIO691](#) is a 100% active BioLoop dispersing agent.
- [Lansperse BA6](#) is a 40% 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 DIS145](#) 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.

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.