

Formulation guidelines for aqueous red 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



Red 112	%
Pigment Red 112	50
Lansperse LT87	8
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	37.9

Red 254	%
Pigment Red 254	43
Lansperse LT87	9
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	43.9

Traditional Surfactant Systems

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

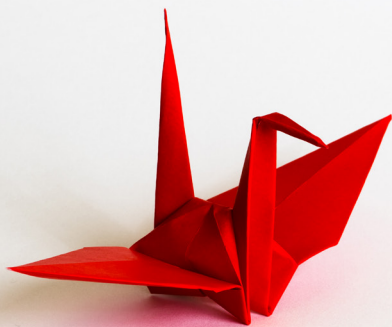
Red 112	%
Pigment Red 112	50
Lansperse DS200W	8
Lansperse DS80	1
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	36.9

Red 254	%
Pigment Red 254	43
Lansperse DS200W	9.6
Lansperse DS80	1
PEG 400	4
Biocide	As required
Dfoam AR2	0.1
Water	42.3

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.

Red 112	%
Pigment Red 112	20
Lansperse UT57	3
Lansperse DIS145	1
PEG 400	2
Kelsan Gum	0.2
Biocide	As required
Dfoam AR2	0.1
Water	73.7



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 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.