

LEVANYL® / LEVANOX®
Water-based pigment dispersions
Outdoor Portfolio Extension 2011



LANXESS Deutschland GmbH
Germany



LANXESS
Energizing Chemistry

LANXESS extends the LEVANYL® / LEVANOX® dispersion portfolio with high performance pigments for outdoor applications

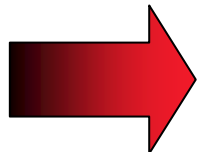


- 7 newly developed dispersions
- Organic and inorganic high performance pigments with very good light and weather fastness
- Fully compatible with existing LANXESS portfolio
 - tailored dispersant system
 - identical preservatives
 - virtually VOC and APEO free
- Significantly extended brilliant color space
- Improved rheology formulation of inorganic pigment dispersions for easy homogenization after storage

LEVANYL® LF / LEVANOX® LF portfolio extension products complement the range with up to date ecological properties



- Virtually solvent free
- No volatile organic compounds (virtually VOC free)
- No ethoxylated arylphenol dispersants (APEO free)
- In compliance with ecological norms and ecolabel requirements
- Full REACH support from a professional, globally acting organization

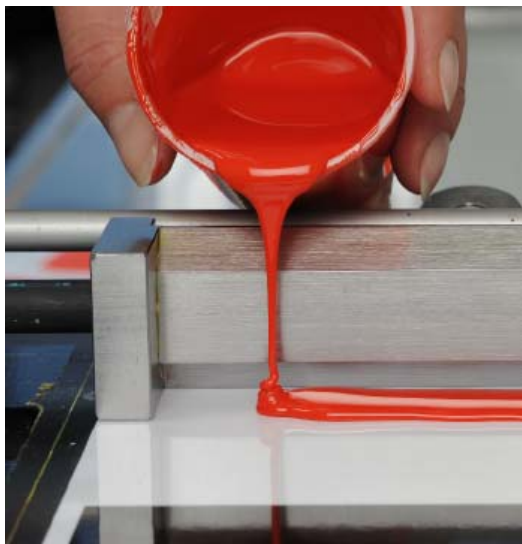


LANXESS dispersions are a reliable basis for ecological formulations

LANXESS

LEVANYL® LF / LEVANOX® LF portfolio extension

Product Details



- Inorganic dispersions:
 - Green shade bismuth vanadate yellow (P. Y. 184)
 - Neutral Co / Al oxide blue (P. B. 28)
 - Green shade Co / Al / Cr oxide blue (P. B. 36)
 - P. Y. 42 iron oxide special modification, orange shade with excellent light fastness
- Organic dispersions:
 - Quinacridone magenta (P. R. 122)
 - Neutral DPP red (P. R. 254)
 - Extremely lightfast anthanthrone scarlet (P. R. 168)

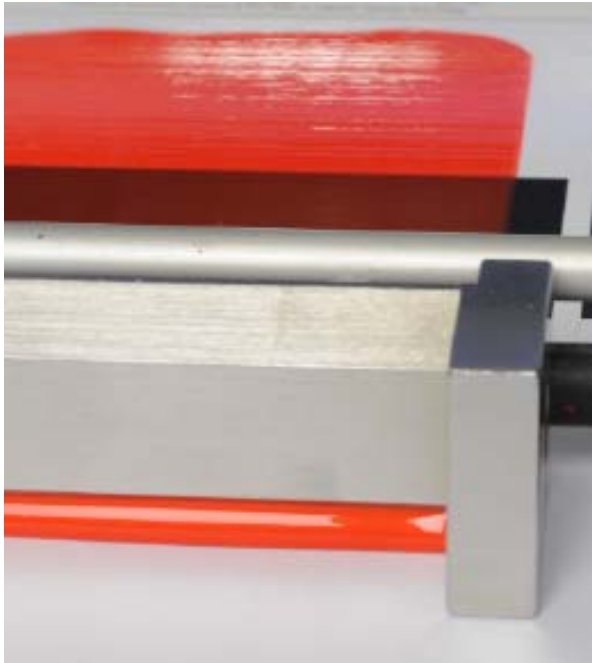
LEVANYL® / LEVANOX® LF pigment dispersions

2011 portfolio extension for outdoor applications

			Product	Color Index	Pigment content*	Light fastness**	
1:10 TiO ₂	1:2 TiO ₂	Full shade	LEVANYL® / LEVANOX®	Part I	[%] approx.	1:10 TiO ₂	Full shade
			LEVANYL® Magenta B-LF	P. R. 122	25	7	7 - 8
			LEVANYL® Scarlet 2G-LF	P. R. 168	30	8	8
			LEVANYL® Red 3G-LF	P. R. 254	40	7 - 8	8
			LEVANOX® Yellow 6G-LF	P. Y. 184	60	7 - 8	7 - 8
			LEVANOX® Blue 2R-LF	P. B. 28	60	8	8
			LEVANOX® Blue 4G-LF	P. B. 36	60	8	8
			LEVANOX® Orange 943 LF	P. Y. 42	60	8	8

*: approx. values, not part of product specification; **: DIN 54004

Newly developed inorganic LEVANOX® dispersions allow long term storage with easy homogenization by stirring



- Dispersed inorganic pigment particles will settle during long-term storage as an effect of their high density
- High viscosity of the dispersion will slow down but not prevent the process
- Settled pigment particles often build up a solid presscake which can't be homogenized any more
- Newly developed LEVANOX® dispersions contain special rheology modifiers which keep settled particles easily re-dispersible by stirring, thus allowing low viscosity of the dispersions for easy handling

LEVANYL® LF / LEVANOX® LF portfolio extension products

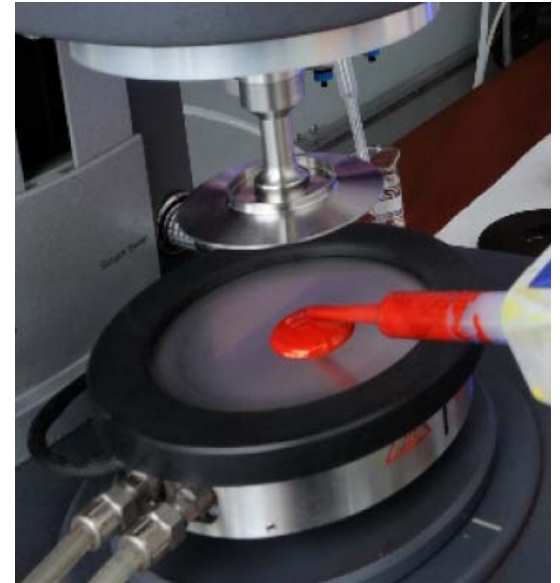
Comprehensive information package of pigment dispersions

LANXESS provides detailed information on physical properties including

- Coloristic dataset for different pigment loading levels in full shade and white reduction
- Particle size determination

Available on customer request:

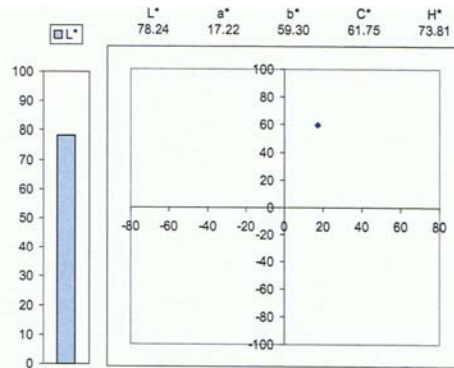
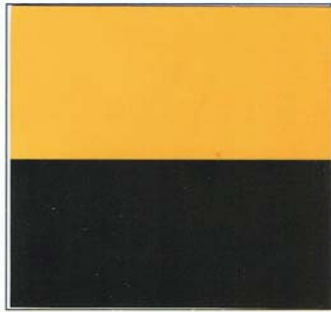
- TEM electron micrographs
- Rheological profile for shear stress
- Rheological profile for heat stability up to 80 °C



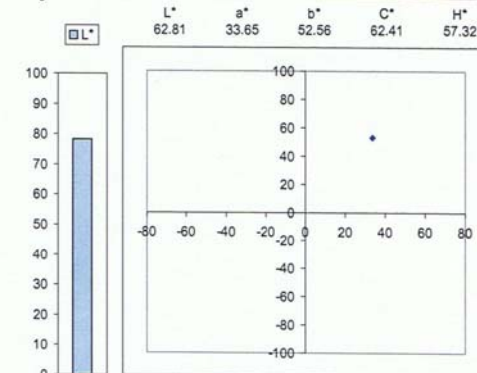
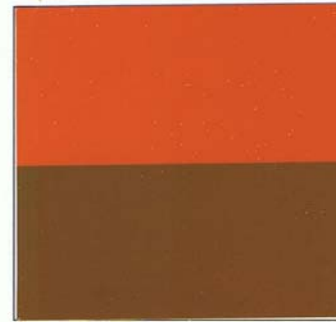
LEVANOX® Orange 943 LF (P. Y. 42)

Coloristic dataset – Full shade

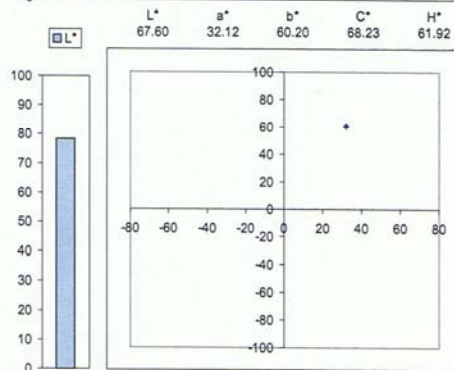
1 % LEVANOX Orange 943-LF 100 µm



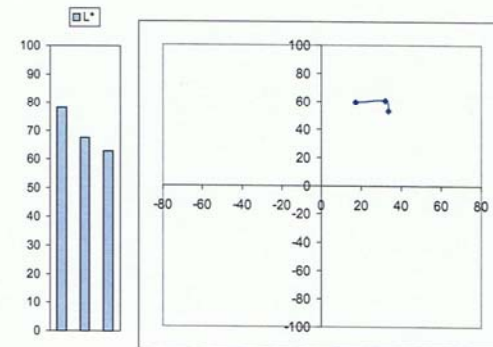
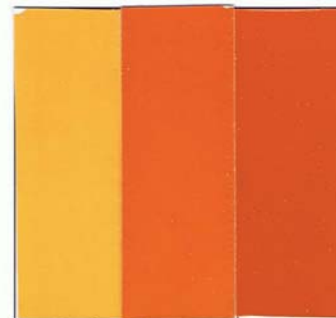
5 % LEVANOX Orange 943-LF 100 µm



3 % LEVANOX Orange 943-LF 100 µm

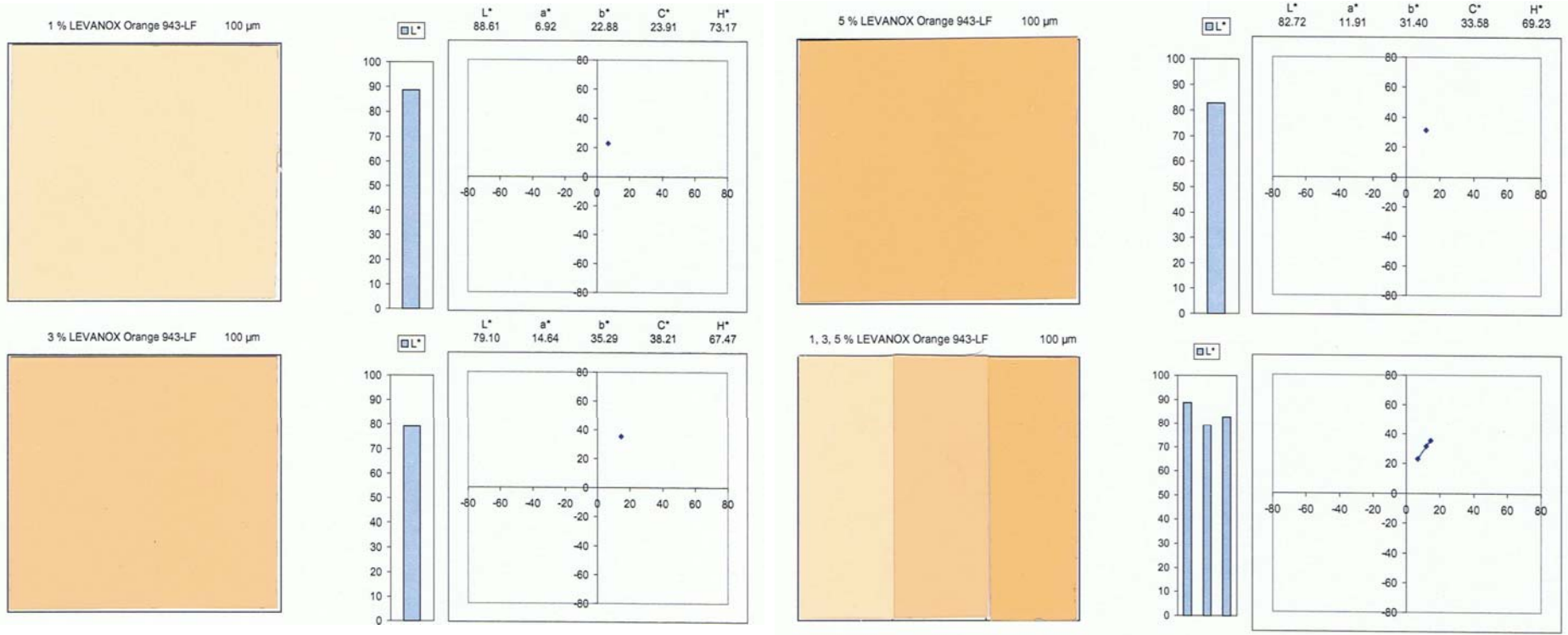


1, 3, 5 % LEVANOX Orange 943-LF 100 µm



LEVANOX® Orange 943 LF (P. Y. 42)

Coloristic dataset – White reduction

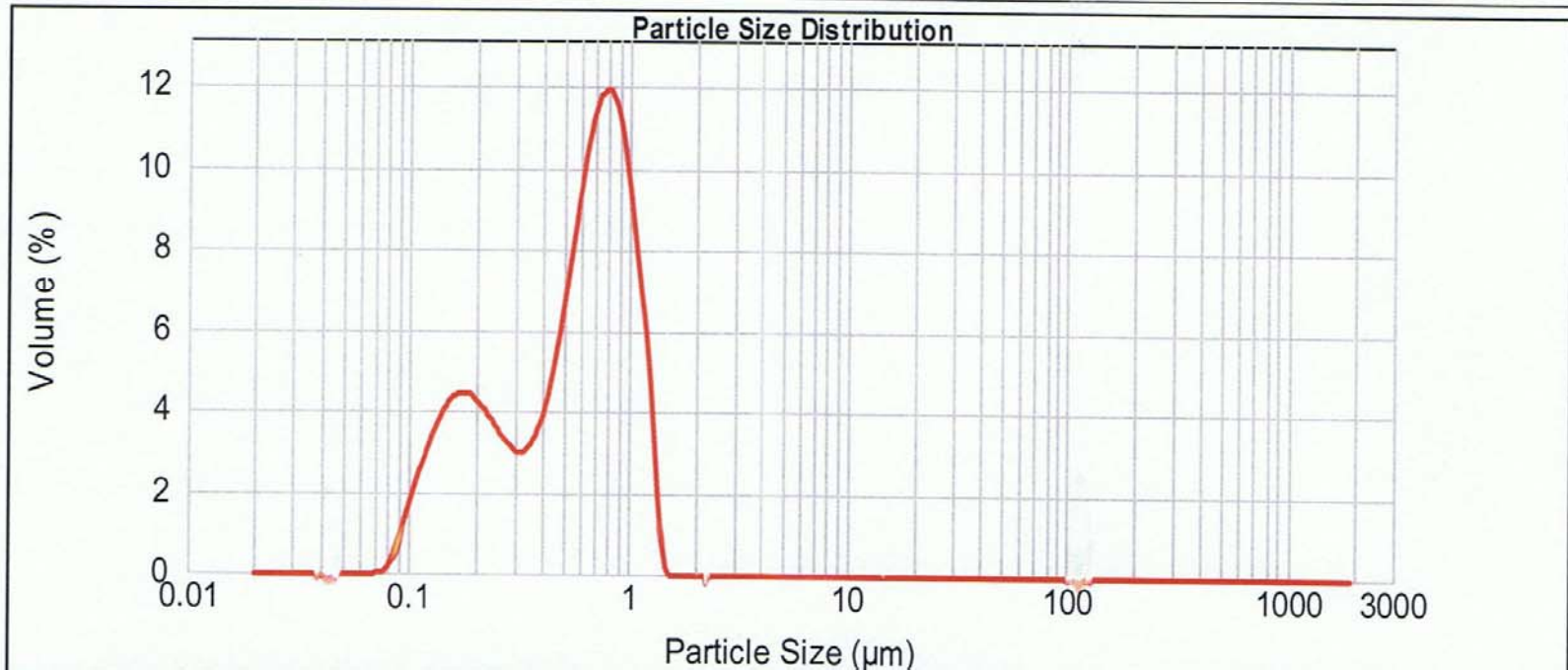


LEVANOX[®] Orange 943 LF (P. Y. 42) Sizing

d(0.1): 0.154 um

d(0.5): 0.602 um

d(0.9): 1.051 um



Disclaimer

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Edition: November, 2011
Replaces Edition: ---
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