TECHNICAL DATA SHEET
UV FLEXO INK

LED AURA+ RANGE
Revision 4 – 26th August 2026

LED AURA+ RANGE

Introduction

LED Flexo AURA+ is a next-generation ink range engineered to meet the highest performance while supporting the demanding regulatory standards for indirect food packaging. Developed to enable compliance with the Swiss Ink Ordinance and German Ink Ordinance and manufactured in line with EuPIA guidelines.

LED Flexo AURA+ provides converters with a dedicated, reliable solution for Food Contact Materials (FCM) where indirect food contact is required.

The LED Flexo AURA+ offers high colour strength, in combination with excellent fluidity, stability and quality.

The Pantone digital library is the foundation for the LED AURA+ range, giving a greater consistency and accuracy to the bespoke mixing guide, utilising the latest technologies that allow for a perfect platform for digital colour synergy and creation.

The LED AURA+ range is designed specifically for all types of flexo presses, fitted with LED (Light Emitting Diode) technology. The system is suitable for metering roll, chamber and bathed anilox inking systems.

This is a premium product manufactured under GMP conditions, using state of the art dispersion techniques, and conforming to high quality standards.

The LED AURA+ range is ideal for a wide range of indirect food contact applications, where supported and unsupported stocks are used, such as SAL, IML, WARL, sachets, flexible packaging and carton sleeve packaging.

Technical Information

Fastness and Product Resistance

Colour	Code	Light Fastness	Steam Sterilisation	Alkali	Acid	Soap	Alcohol
Yellow	LEDA-Y901	4-5	N/A	5	5	N/A	5
Orange	LEDA-Y902	6	N/A	4	4	N/A	N/A
021 Orange	LEDA-Y904	6	N/A	3	4	N/A	N/A
Warm Red	LEDA-R902	6	N/A	3	4	N/A	N/A
032 Red	LEDA-R904	6-7	N/A	3	5	N/A	3
Rubine	LEDA-R901	5	N/A	4-5	4	2-3	3
Rhodamine	LEDA-R903	5-6	N/A	4-5	4	2-3	3
Purple	LEDA-C903	3	N/A	4-5	5	4-5	3-4
Violet	LEDA-V901	3	3	4-5	5	4-5	3-4
072 Blue	LEDA-C904	6	N/A	4-5	5	4-5	3
Reflex Blue	LEDA-C902	6	N/A	4	2	2-3	3
Process Blue	LEDA-C901	7-8	N/A	5	5	5	3
Green	LEDA-G901	8	N/A	5	5	N/A	5
Untoned Black	LEDA-B902	8	N/A	4	2	2-3	3

Process Standard Range

Colour	Code	Light Fastness	Steam Sterilisation	Alkali	Acid	Soap	Alcohol
Process Yellow	LEDA-Y905	4	N/A	5	5	N/A	4-5
Process Magenta	LEDA-R905	5	N/A	4	4	2-3	4-5
Process Cyan	LEDA-C905	7-8	N/A	5	5	5	3
Process Black	LEDA-B905	8	N/A	4	2	2-3	3

Key Features	Advantages
Developed in accordance to the Swiss Ink Ordinance and German Ink Ordinance	Minimising migratables in the cured film
Developed and manufactured in line with the EuPIA Guidelines for indirect food packaging	EuPIA Charter and GMP
High Colour Strength	Anilox and ink laydown flexibility
Based on the Pantone Digital Library	Colour accuracy and consistency
Designed in accordance to the PPWR (Packaging and Packaging Waste Regulation	No intentionally added PFAS and BPA
Low Viscosity & Fluidity	Improved print unit performance Optimised dot creation and clean print
Rapid Cure Response	Optimum press speeds- performance from 0 to maximum speed
Superior Adhesion	Use a wide range of materials
Solvent Free	Environmentally friendly Inks stay open No excessive lamp degradation
Surfactant Free	No foaming or aeration Overprintable
Press Ready	No press side additions to the ink
High Gloss	Aesthetic lacquer often not required

Notes on Fastness Table

All figures are based on the latest available information at the time of publication. Please note for inks containing more than one pigment the lowest fastness values are quoted.

For further information on lightfastness see our Knowledge Base article on “The Lightfastness of Printing Ink”.

The above lightfastness figures are based on a 1-8 Blue Wool Scale for dry lightfast conditions only.

Weather fastness results are quoted for 100 hours exposure (approximately 1 month) on the following grey scale for weather fastness where 1* = colour disappeared. For outdoor applications that may be exposed to weathering please contact ALDUS INKS for recommendations prior to printing.

Grey Scale	**5**	**4-5**	**4**	**3-4**	**3**	**2**	**1**
Fastness	Very Good	Good	Adequate	Fair	Poor	Very Poor	Not Acceptable

Physical Data

Curing speed	> 100 m/min		
Curing type	Ultra Violet (free radical)		
Typical densities (Optimised process weights at 150 m/min)	Yellow 0.95 - 1.15 Magenta 1.35 - 1.45 Cyan 1.35 - 1.45 Black 1.40+		
Volume recommendations (cm^3/m^2)	Process work	2-4 cm^3/m^2	
	Line or Type	4-6 cm^3/m^2	
	Solids	5-7 cm^3/m^2	
Suitability/performance:	**Excellent**	**Good**	**Testing advised**
Substrates:			
Machine coated paper	•		
Top coated synthetic substrates	•		
Thermal active papers (when over lacquered)**		•	•
Foils	•		
Combination Printing:			
UV Letterpress	•		
UV Flexo	•		
UV Flexo / Duct Varnish	•		
Water based Flexo			•
UV Screen (silicone free)	•		•
Suitable overprint methods:			
Thermal transfer overprinting	•		•
Direct thermal (requires over lacquer)		•	•
Hot Foil	•		•
Laser overprinting	•		•

** Always test any thermal stock prior to use for LED suitability.

Substrates

This ink system has been purposely designed for use on many papers, boards, synthetics and foils both supported and unsupported. The inks are press ready and the use of performance additives is not recommended without prior consultation or recommendation by ALDUS INKS. This ink system is not suitable for thermal active papers without the use of a suitable over varnish.

NB. Due to the wide variety of synthetic substrates available we cannot provide guarantees for ink adhesion. We recommend the use of good quality top coated substrates. Non - top coated substrates can also be converted providing the material is corona treated or primed prior to printing.

It is recommended that adequate testing be carried out prior to production runs.

Overprinting

All inks detailed in this information sheet are free from surfactants and are considered suitable for overprinting using thermal transfer ribbons, hot foils, laser toners, flexo and screen inks. Please note that due to the wide variety of ribbons, foils and toners which are available, we always recommend overprintability trials be conducted for suitability when using these products for the first time or if the print construction changes.

It is important that tests are carried out to ensure good results can be achieved when printing on press.

Other Information

All products must be mixed/stirred thoroughly to ensure consistency prior to printing, failure to do so may alter the performance or finish of the ink.

All products detailed in this information sheet can be used for indirect food packaging applications without the presence of an absolute barrier, such as glass or metal as part of the final packaging construction.

Full legislative, regulatory and compliance information regarding the LED AURA+ products is available upon request.

Storage and Shelf Life

All products detailed in this information sheet have a guaranteed shelf life of 12 months, but storage conditions are imperative. The container should be closed immediately after use and stored in a dry area at 5-18^{o}C away from direct sunlight. This guarantee only applies to sealed, unopened containers.

The information contained in this General Information sheet is based on the experience of ALDUS INKS and our internal laboratory test procedures. It is not to be interpreted as a warranty or guarantee in any form as conditions and variables beyond our control can affect the end result.

We recommend press trials when using new substrates and other print related variables for suitability purposes.

We reserve the right to alter any product data as a result of technical or manufacturing processes.

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