TECHNICAL DATA SHEET
UV FLEXO INK

LUNA RANGE
Revision 10 – 26th August 2026

LUNA RANGE

Introduction

The UV Flexo LUNA range has been designed to unite the major requirements of press and print performance, colour strength, fluidity, stability, and quality required for todays and future market areas.

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

This product range is manufactured using state-of-the-art dispersion techniques and conforms to high quality standards.

The UV Flexo LUNA Range has been developed for optimum performance on all types of flexo-printing units equipped with UV (MPM) drying.

The range lends itself to a wide range of applications including self-adhesive labels, wet glue applications, carton and board applications (Non FCM), ticket and tags.

Technical Information

Fastness and Product Resistance

Colour	Code	Light Fastness	Steam Sterilisation	Alkali	Acid	Soap	Alcohol
Yellow	YF0001	4-5	N/A	5	5	N/A	5
Orange	YF0002	6	N/A	4	4	N/A	N/A
021 Orange	YF0004	6	N/A	3	4	N/A	N/A
Warm Red	RF0002	6	N/A	3	4	N/A	N/A
032 Red	RF0004	6-7	N/A	3	5	N/A	3
Spot 032 Red	RF0014	3	N/A	3	4-5	N/A	4-5
Rubine	RF0001	5	N/A	4-5	4	2-3	3
Rhodamine	RF0003	5-6	N/A	4-5	4	2-3	3
Pink	RF0006	5-6	N/A	4-5	5	2-3	3
Purple	CF0003	3	N/A	4-5	5	4-5	3-4
Violet	VF0001	3	3	4-5	5	4-5	3-4
072 Blue	CF0004	6	N/A	4-5	5	4-5	3
Reflex Blue	CF0002	6	N/A	4	2	2-3	3
Dark Blue	CF0006	6	N/A	4-5	5	4-5	3
Process Blue	CF0001	7-8	N/A	5	5	5	3
Green	GF0001	8	N/A	5	5	N/A	5
Untoned Black	BF0002	8	N/A	4	2	2-3	3

INKS & COATINGS

Process Standard Range

Colour	Code	Light Fastness	Steam Sterilisation	Alkali	Acid	Soap	Alcohol
Process Yellow	YF0005	4	N/A	5	5	N/A	4-5
Process Magenta	RF0005	5	N/A	4-5	4	2-3	4-5
Process Cyan	CF0005	7-8	N/A	5	5	5	3
Process Black	BF0005	8	N/A	4	2	2-3	3

Process Strong Range

Colour	Code	Light Fastness	Steam Sterilisation	Alkali	Acid	Soap	Alcohol
Process Yellow	YF0007	4	N/A	5	5	N/A	4-5
Process Magenta	RF0007	5	N/A	4	2	2-3	4-5
Process Cyan	CF0007	7-8	N/A	5	5	5	3
Process Black	BF0005	8	N/A	4	2	2-3	3

Key Features	Advantages
Developed and manufactured in line with the EuPIA Guidelines	EuPIA Charter compliance
Designed in accordance with the PPWR (Packaging and Packaging Waste Regulation)	No intentionally added PFAS
Based on the Pantone Digital Library	Colour accuracy and consistency
Low Viscosity & Fluidity	Improved print unit performance Optimised dot creation and clean print
Rapid & Balanced Cure Package Response	Optimum press speeds Performance from 0 to maximum speed
Superior Adhesion	Use a wide range of materials
Solvent Free	Environmentally friendly Ink stability No excessive lamp degradation
Surfactant Free	No foaming or aeration Overprintable
Press Ready	No press side additions to the ink
High Gloss	Aesthetic lacquer is 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 UV 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.

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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