UV FLEXO LUNA CHAMELEON RANGE

Introduction

The UV Flexo LUNA Chameleon range is a dedicated set of inks for Flexible Extended Gamut Printing (FEGP), and has been exclusively designed to unify with the bespoke Chameleon reprographic system from JFM, giving printers, end users, brand owners and retailers a completely unique FEGP system that delivers high quality product optimisation, combined with numerous environmental, cost, time and waste savings.

The Chameleon ink range has been developed and formulated to meet the major requirements of press and print performance, colour strength, fluidity, stability, quality and value for money in today's and future markets.

Unique and exacting manufacturing processing used to produce the Chameleon inks, delivers unequivocal batch to batch consistency, ensuring absolute upstream production reliability and validation.

Benzophenone, ITX, BDK and 369 free and developed for use on in-line UV flexo presses, giving optimum performance in all types of flexo printing units equipped with UV (MPM) drying.

This ink range has the potential for use on indirect food packaging, on the condition that Food Packaging Compliance (FPC), can be demonstrated.

The Chameleon system lends itself to a wide range of applications including self-adhesive labels, wet glue applications, sachets, IML, shrink sleeving, carton board applications and ticket and tags.

Key Features	Advantages	Benefits
Benzophenone, ITX, BDK and 369 free	Compliant to the EuPIA Exclusion Policy	Widens portfolio of suitable work
Based on the Pantone Digital Library	Colour accuracy and consistency	Cost savings and print optimisation
Low Viscosity & Fluidity	Improved print unit performance Optimised dot creation and clean print	Optimum up time and quality
Rapid & Balanced Cure Package Response	Optimum press speeds Performance from 0 to maximum speed	Consistency and stability
Superior Adhesion	Use a wide range of materials	Flexibility in products you can convert
Solvent Free	Environmentally friendly Ink stability No excessive lamp degradation	Healthy working environment Optimum up time on press UV unit integrity
Surfactant Free	No foaming or aeration Overprintable	Optimum up time on press and savings
Paragon Inks Global Guarantee	Product is always of the same high quality	Optimum up time on press and savings
Press Ready	No press side additions to the ink	Optimum up time on press
High Gloss	Aesthetic lacquer often not required	Potential for cost savings

Technical Information

Fastness and Product Resistance

Colour	Code	Light Fastness	Weather Fastness (100hrs)	Steam Sterilisation	Alkali	Acid	Soap	Alcohol
Clean Yellow	YF7001	4-5	N/A	N/A	5	5	N/A	5
Yellow	YF7005	4	N/A	N/A	5	5	N/A	4-5
Orange	YF7002	4-5	N/A	N/A	4	4	N/A	N/A
Bright Red	RF7002	4-5	N/A	N/A	3	4	N/A	N/A
Clean Magenta	RF7006	5-6	N/A	N/A	4	2	2-3	3
Magenta	RF7005	4-5	N/A	N/A	4	2	2-3	3
Violet	VF7001	3	N/A	3	4-5	5	4-5	3-4
Cyan	CF7015	6+	N/A	N/A	5	5	5	3
Blue	CF7004	5	N/A	N/A	4-5	5	4-5	3
Green	GF7001	5-6	N/A	N/A	4-5	4-5	N/A	4-5
Black	BF7005	6+	N/A	N/A	4	2	2-3	3

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 light fastness 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 Paragon 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	> 150 m/min
Curing type	Ultraviolet (free radical)

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	•		•

Substrates

This ink system has been purposely designed for use on the majority of 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 Paragon Inks. This ink system is not suitable for thermal active papers without the use of a suitable over varnish.

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

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.

For additional information on the Chameleon Reprographic System, please contact JFM Plates:

Tel: +44 (0) 161 205 5050

Web: www.jfmplates.co.uk

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 Paragon Inks (Holdings) Limited 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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