

Uvijet EV



UVIJET UV Curable Jet Inks exclusively designed for the Inca Eagle flatbed printer.

Features

- Conventional UV ink system
- Low odour
- Fast cure for high production output
- Intense colours. Wide colour gamut
- Ultra low print odour
- Wide adhesion range
- Recommended for both internal and external applications
- Suitable for decoration of uneven substrates

Ink Properties

The Uvijet EV range is a high quality UV curable inkjet system, for Piezo Drop-on-Demand print heads, specifically developed for use with the Eagle press.

The inks offer superb dot reproduction, lightfast bright colours, and adhere to a wide range of rigid and flexible uncoated materials.

Uvijet EV Colour Range

The Uvijet EV ink range is available as a 4-colour process set.

EV215	Cyan
EV135	Magenta
EV052	Yellow
EV004	Black

All are available in 5kg containers.

Application Range

The Inca Eagle press and Uvijet EV ink combine to create a world of printing opportunities.

The Eagle press accepts rigid and flexible materials up to 40mm thick and Uvijet EV inks are designed to decorate a wide range of uncoated media, including:

Display Board
Corrugated Board
Foam Centred Board
Foam PVC
Acrylic
Flexible PVC
Self Adhesive PVC
Rigid PVC
Fluted Polypropylene
Polyethylene
Paper
Polycarbonate
Polyester

Curing

Excellent cure and adhesion are achieved immediately on curing. However, maximum adhesion, chemical, scuff and scratch resistance may not be obtained until 24 hours after initial curing.

The actual level of cure will depend upon ink thickness, substrate and the UV curing lamps being used. Superior through cure may be obtained by reducing the print speed to increase the overall UV dose.

Pre-production Tests

Uvijet EV is formulated to adhere to most major brands of plastic, polypropylene and polyethylene materials with a surface energy level of 42 dynes/cm or higher.

However, it is strongly recommended that all substrates are tested before a commercial run.

Plastics

Certain plastics may be impregnated with lubricants which, like plasticisers, migrate impairing adhesion and block resistance for a considerable period after printing.

This can be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

The end user must determine suitability of this product for the intended use prior to production.

Chemical and Abrasion Resistance

Uvijet EV inks have good chemical and excellent abrasion resistance. However, for optimum resistance over- varnishing with a durable UV screen varnish such as Uvibond UV383 is recommended.

Outdoor Use

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ1960 standard. Under these conditions the accelerated weathering of Uvijet EV inks equates to approximately 24 months outdoor exposure in a temperate climate, such as the UK.

Storage

Uvijet EV should not be stored in direct sunlight or near warm pipes and should be kept away from peroxides. In the interest of maximum shelf-life storage temperatures should be between 10°C and 40°C.

When stored in a cool environment the inks are expected to have a shelf-life of 12 months from date of manufacture.

Safety and Handling

Uvijet Inks

- Are free from n-Vinyl-2-pyrrolidone, which is suspected of causing cancer.
- Do not have a flash point and therefore are exempt from the Highly Flammable Liquid Regulations.
- Are formulated free from lead and other heavy metals and therefore should comply to the EN71-3:1995 Toy Safety regulations

Comprehensive information on the safety and handling of Uvijet inks is given in the appropriate Sericol Safety Data Sheets available upon request.

Environmental Information

Uvijet Inks

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons known to have an adverse effect on the environment.
- Are free from any volatile solvent and therefore beneficial to the environment when compared to solvent-based products.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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