

Uvijet EK



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

Using Fujifilm's unique Micro-V dispersion technology to maximise pigment loading, the Uvijet range of UV curing inks delivers vibrant, lightfast colours that last. The main advantages of Uvijet EK are:

Features

- Greater flexibility and reduced edge chipping
- Fast cure for high production output
- Ultra low print odour
- Wide adhesion range
- Recommended for both internal & external applications
- Suitable for decorating uneven surfaces
- 5 kilo open top containers for ease of use
- Suitable for use on the Columbia Turbo, Columbia 220, Columbia Turbo 220, Spyder 320 & Spyder V

Ink Properties

The Uvijet EK range is a high quality UV curable inkjet system for Piezo drop on demand print heads, specifically developed for the use with the Inca flatbed printers.

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

Uvijet EK Colour Range

- EK215 Cyan
 EK052 Yellow
 EK135 Magenta pink shade
 EK867 Magenta blue shade
 EK004 Black

Available in 5 kilo containers.

- QV017 Flushing Solution

Available in 1 and 5 ltr containers.

- ZE680 Adhesion Promoter
 ZE720 Adhesion Master
 ZE700 Fusion Ultra

Available in 1 litre containers.

Application Range

Uvijet EK has been designed to decorate a wide range of rigid and flexible materials including:

Media type	Adhesion Characteristic
Display Board	✓✓✓
Corrugated Board	✓✓✓
Foam Centred Board	✓✓✓
Foam PVC	✓✓✓
Acrylic	✓ (A) will improve adhesion to ✓✓✓
Flexible PVC	✓✓✓
Self Adhesive PVC	✓✓✓
Gloss Rigid PVC	✓✓✓
Fluted Polypropylene	✓ (B) will improve adhesion to ✓✓✓
Polyethylene	✓ (B) will improve adhesion to ✓✓
Paper	✓✓✓
Polycarbonate	✓✓ (C) will improve adhesion to ✓✓✓
Polystyrene	✓✓ (C) will improve adhesion to ✓✓✓
Polyester	✓✓
Digital Dibond	✓✓✓
Self Cling	✓✓
Vinyl banner	✓✓✓

Excellent ✓✓✓ **Good** ✓✓ **Fair** ✓

A = ZE680 Adhesion Promoter may optimise performance

B = ZE720 Adhesion Master may optimise performance

C = ZE700 Fusion Ultra may optimise performance

THE END USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION

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

Uvijet EK inks have been formulated to withstand cutting, drilling or routing finishing processes. Such work should be conducted within 24 hours of being printed. However it is strongly recommended that all substrates are tested before proceeding with a commercial run.

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PRODUCT INFORMATION

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.

Chemical and Abrasion Resistance

Uvijet EK 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 EK inks equates to approximately 24 months outdoor exposure in a temperate climate, such as the UK.

For polyethylene materials such as correx, it is recommended that Uvijet Adhesion Master ZE720 is applied prior to printing to maximise ink and substrate adhesion.

Where prolonged outdoor use is required, it is strongly recommended to obtain verification of the actual durability of the polyethylene (correx) material from the manufacturer or substrate supplier prior to use to ensure that the choice of Correx will not adversely effect the durability of Uvijet digital inks.

Storage

Uvijet EK 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 5°C to 30°C.

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

Fujifilm Speciality Ink Systems Limited:

- Has certification to the International Environmental Standard, ISO 14001.
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

Uvijet Inks

- Have a flashpoint greater than 55°C and are therefore not classified as "dangerous substance" under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of Uvijet inks is given in the appropriate Fujifilm Safety Data Sheets.

Environmental Information

Uvijet EK Inks

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons.
- Are free of any volatile solvent and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

Uvijet Fusion Primers

Adhesion Promoter - ZE680 & Fusion Ultra - ZE700

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons.

Uvijet Adhesion Master - ZE720

- Does not contain ozone-depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Speciality Ink Systems Limited and its associated companies, 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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