

## Uvijet KA

UV Curing Ink System for Acuity Advance Inkjet Printers



### PRODUCT INFORMATION

#### Features

- Conventional UV ink system
- Excellent adhesion to rigid plastic substrates
- Greatly reduced artefacts when printing over fingerprints and marking left by protective films
- Low satin finish
- CMYK + White colour set
- Excellent inter-coat lay for back lit and solid prints
- Recommended for indoor and external applications

#### Ink Properties

The Uvijet KA ink range is a high quality UV curable inkjet system designed for piezo drop-on-demand printheads. The ink has been specially developed for Acuity Advance printers and offers excellent dot reproduction, light-fast colours and will adhere to a wide range of rigid and flexible uncoated materials.

#### Colour Range

KA052 Yellow  
KA867 Magenta  
KA215 Cyan  
KA004 Black

Supplied in 2 litre sealed pouches.

KA021 White  
QV017 UV Flush

Available in 1 litre containers.

#### Application Range

Uvijet KA inks are specifically formulated to maximise the performance of the Fujifilm Acuity Advance UV curing printers – model numbers HD2545, HD2565, HD3545, and the HD4000, HD5000 series. Uvijet KA inks are designed to decorate and provide excellent adhesion to a wide range of uncoated rigid substrates.

**Important Note:** On Acuity Advance Select and Select HS models that support Uvijet KN391Clear ink, reticulation can occur on some media types when over-printing Uvijet KA inks which may cause print artefacts.

The Acuity Advance printer series has been designed to print high quality short run work previously carried out by either screen or offset printing processes. If producing prints where colours must meet the ISO 12647-2 standard, Uvijet KA will **not** achieve this. In these instances it is recommended to use either Uvijet KO or Uvijet KI ink ranges depending on the primary applications being printed.

Uvijet KA021 White may vary in opacity over different materials due to its wetting characteristics. It is advisable to perform a test on new materials.

Performance of ink on substrate may vary across substrate manufacturers.

Media Type	Adhesion Characteristics
Polycarbonate	✓✓✓
Styrene	✓✓✓✓
Acrylic	✓✓
APET	✓✓✓✓
Priplak	✓✓
Correx	✓✓✓
Dibond	✓✓✓✓
PVC Foam Board	✓✓✓✓
Display Board	✓✓✓✓
Semi Rigid PVC	✓✓✓✓
Self-Adhesive PVC	✓✓✓✓
PVC Banner	✓✓✓✓

Excellent ✓✓✓✓ Good ✓✓✓ Fair ✓✓ Poor ✓

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

#### Curing

Excellent cure and adhesion are achieved immediately upon print and UV 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 by selection of an alternative print mode to increase the overall UV dose.

## Pre-production Tests

Uvijet KA ink is formulated to give excellent adhesion to most major brands of plastic, polypropylene and polyethylene materials. Polyolefin's should have a surface energy level of 42 dynes/cm or higher.

However it is strongly recommended that all substrates are tested before a commercial run. For information on adhesion promoters refer to the Uvijet Fusion Primer range.

## Plastics

Some plastic substrates may contain lubricants which, like plasticisers, may impair adhesion and block resistance for a considerable time after printing.

There may also be residues from glues and adhesives used on backing sheets. This can be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

To reduce the risk of problems generated by the build-up of static electricity it is advisable to pass an earthed anti-static brush over the material prior to printing. Allow static generated from protective sheets to dissipate before printing. Ensure that the printer is cited as per recommended humidity/temperature recommendations 40-70% RH, 18-30 °C.

## Chemical and Abrasion Resistance

Uvijet KA inks have good chemical and abrasion resistance.

## Outdoor Use

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ 1960 Standard. Under these conditions the accelerated weathering of Uvijet KA inks equates to approximately 24 months outdoor exposure in a temperate climate such as Northern Europe.

## Storage

Uvijet KA ink should not be stored in direct sunlight or near heat sources and should be kept away from peroxides. For optimum shelf-life, products should be stored at moderate temperatures between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the products.

When stored in a cool environment the 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 and 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 KA Inks:

- Have a flash point 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 Safety Data Sheets.

## Environmental Information

Uvijet KA Inks:

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