

Uvijet AU

LED Curing Ink System for the Acuity Ultra R2 Inkjet Printer.

Ink Properties

The Uvijet AU ink range is a quality LED curable inkjet system designed for use with Acuity Ultra R2 super-wide piezo drop-on-demand printers. Using the highest quality pigments and Fujifilm's unique Micro V dispersion technology, Uvijet AU inks produce class leading colour gamut increasing the number of colours printable whilst simultaneously maximizing outdoor light fastness for prints with lasting impact.

Features:

- Robust jetting reliability
- Excellent inter-coat lay down for back lit and solid prints
- Excellent cost in use with ultra-low ink film deposit
- Low in print odour (dependent on material/lamp setting used)
- Recommended for internal and external applications
- Improved impact resistance (cutting, creasing)
- Greenguard and AgBB approved
- Bright vibrant colour

Product range

Product Code	Description	Pack Size
AU052	Yellow	5kg
AU215	Cyan	5kg
AU867	Magenta	5kg
AU004	Black	5kg
AU255	Light Cyan	5kg
AU335	Light Magenta	5kg
AU021	White	1kg
AU-HC	Head Conditioner	1kg

Application Range

Uvijet AU inks are specifically formulated to provide excellent adhesion to many flexible materials, giving superb output quality, even at high speeds. These inks are suitable for a wide range of media such as flex face banners, mesh, blueback or backlit paper, self-adhesive vinyl, backlit films, UV fabrics and many more coated and uncoated media.

Main applications include high end luxury backlit displays, exhibition graphics, interior decoration and wallpapers, display POP, banners/posters and vehicle advertising.

The table below details the available data on adhesion performance of the ink range. Please note that these are generic recommendations and all substrates should be tested before use to ensure that the finished print performs as required for the end application.

Media Type	Adhesion Characteristics	Media Type	Adhesion Characteristics
Banner PVC	✓✓✓	Paper	✓✓✓
Gloss Self Adhesive PVC	✓✓✓	Mesh	✓✓✓
Matt Self Adhesive PVC	✓✓✓		
Clear PET	✓✓✓		
Polyester Textiles	✓✓✓		

Key: Excellent ✓✓✓ Good ✓✓ Fair ✓

IMPORTANT

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

Excellent adhesion and film hardness properties are achieved immediately after print and 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 on factors such as ink film thickness, colour, substrate, the UV-LED settings and print mode being used. Modifications to all of these factors can be made to improve the cure of the final ink film.

Pre-production Tests

Uvijet AU ink is formulated to give good adhesion to most major brands of plastic materials. Polyolefins 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.

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. Ensure that the printer is sited in an environment where temperature and humidity can be controlled as per the recommendations: 40–70% RH, 18–30°C.

Chemical and Abrasion Resistance

Uvijet AU inks have good chemical and abrasion resistance. For optimum print durability it is recommended to laminate prints to protect the surface from abrasion and chemical attack. Tests need to be made to confirm laminate suitability.

Print Head Warranty

Fujifilm warrant that Uvijet AU inks have been formulated to be compatible with the ink supply system of Acuity Ultra R2 printers. These inks must be used in accordance with the operating and servicing recommendations in the Acuity Ultra R2 manual and Fujifilm's ink storage conditions.

In the unlikely event that Fujifilm inks are proven to be the cause of a breakdown, Fujifilm will replace the defective parts. In the case of a claim, any defective part will be subject to analysis in our quality assurance laboratory to determine the cause and extent of damage due to ink performance. This warranty is in addition to that set out in Fujifilm's standard terms and conditions of supply.

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 AU inks equates to approximately 24 months outdoor south facing exposure in a temperate climate such as Northern Europe.

Storage

Uvijet AU 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.

Safety and Handling:

- Have a flash point greater than 60°C and are therefore not classified as 'dangerous substances' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).
- Ink bottles must be shaken before loading into the machine ink tanks.

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

Environmental Information:

- 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.

FUJIFILM Speciality Ink Systems Limited:

- Has certification to the International Environmental Standard, ISO 14001.
- Has certification to the Quality Management Standard, ISO 9001.
- Has certification to the Occupational Health and Safety Standard, OHSAS 45001.
- 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.



Uvijet AU has gained UL GREENGUARD Gold Certification.

This helps manufacturers create - and helps buyers identify - interior products and materials that have low chemical emissions. GREENGUARD Certification is part of UL Environment, a business unit of UL (Underwriters Laboratories). GREENGUARD Certification. More detail here: ul.com/gg.



Uvijet AU inks have gained AgBB certification

Building products may be a major source of indoor air pollution by volatile organic compounds (VOC). In Germany, the Committee for Health-related Evaluation of Building Products (Ausschuss zur gesundheitlichen Bewertung von Bauprodukten AgBB) have certified that Uvijet GS is suitable for use on wallcoverings. More detail here <http://www.eurofins.com>

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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