

Uvijet AU

UV-LED Curing Ink System for Acuity Ultra R2 Printers

Fujifilm's Uvijet AU Series is a range of high density, highly durable, UV-LED curable pigmented inks for piezo drop-on-demand printhead technology.

Using the best quality pigments and Fujifilm's unique Micro V dispersion technology, Uvijet AU inks produce class leading color gamut increasing the number of colors printable while simultaneously maximizing outdoor light fastness for prints with a lasting impact.



Uvijet

Features:

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

**SPECIFICATIONS:
UVIJET AU INK SERIES****Uvijet AU Color Range**

- ▶ AU052/5 Yellow
- ▶ AU215/5 Cyan
- ▶ AU867/5 Magenta
- ▶ AU004/5 Black
- ▶ AU255/5 Lt Cyan
- ▶ AU335/5 Lt Magenta
- ▶ AU021/1 White
- ▶ AUHC/1 Head Conditioner

Colors available in 5 kilogram and white in 1 kilogram containers

AU-HC Head Conditioner available in 1 kilogram containers

APPLICATION RANGE

Uvijet AU inks are formulated to provide excellent adhesion to flexible materials, giving superb output quality, even at high print speeds. These inks are suitable for a wide range of media such as flexface 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
- ▶ Bus / Taxi advertising

Uvijet AU can be used to decorate a wide range of substrates such as:

Backlit films

UV fabrics

Banner grade PVC

Self-adhesive vinyl's

Mesh

Poster paper

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 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, the UV-LED lamp settings and print mode being used. Modifications to all of these factors can be made to improve the final cure of ink.

COLOR AND OUTDOOR DURABILITY

The highest quality pigments have been chosen allowing the inks to produce a wide color gamut, maximizing the range of colors achievable.

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ 1960 Standard. Under these conditions, for the sign and banner market, the accelerated weathering of Uvijet AU inks equates to approximately 18 months outdoor exposure in a temperate climate, such as most of United States except deep Southwest and Florida.

CHEMICAL AND ABRASION RESISTANCE

Uvijet AU inks have good chemical and abrasion resistance. For optimum print durability it is recommended to over-varnish or 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 the Acuity Ultra R2. 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, then 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.

PLASTICS

Some plastic substrates may contain lubricants which, like plasticizers, 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.

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 41°F to 86°F (5°C to 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

- ▶ Has certification to the International Environmental Standard ISO 14001.
- ▶ Is committed to minimizing the risk to users of our products, and also to minimizing 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 AU Inks:

- ▶ Have a high flash point greater than 140°F (60°C) and 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 inks is given in the appropriate Safety Data Sheets.

ENVIRONMENTAL INFORMATION

Uvijet AU:

- ▶ 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.
- ▶ Formulated and manufactured without the intentional use of heavy metals, phthalates or conflict minerals. These products are formulated to meet CONEG Packing Legislation, REACH SVHC and ROHS Electrical and Electronic Equipment Directive. If necessary, certification of lead and heavy metals content can be obtained from an independent laboratory.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Specialty 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.