

# Uvijet LF

## LED UV Curing Ink System for the Acuity LED 3200R Printer

The Uvijet LF ink range is a high quality UV curable inkjet system designed for piezo drop-on-demand printheads. The inks are specifically formulated to maximize the performance of the Fujifilm Acuity LED 3200R printers and offers excellent dot reproduction and will adhere to a wide range of flexible uncoated materials.



Uvijet

### Features

- LED UV curing ink system
- Designed for use on the Acuity LED 3200R printer
- Fast cure for high production output
- Superb flexibility on roll media
- Excellent adhesion range
- Intense colours with a wide gamut
- Satin finish
- Excellent inter-coat lay for backlit and solid prints
- Recommended for indoor and short-term external applications

## APPLICATION RANGE

Uvijet LF inks are specifically formulated to maximize the performance of the Fujifilm Acuity LED 3200R UV curing printer. Uvijet LF inks are designed to decorate and provide excellent adhesion to a wide range of uncoated flexible media.

Performance of ink on substrate may vary across substrate manufacturers. Some thin media may be prone to embrittlement due to the increased build.

The Acuity LED 3200R printer has been designed to print high quality production jobs.

## 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 pass mode and substrate. 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 LF ink is formulated to give excellent adhesion to most major brands of plastic material. 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. To reduce the risk of problems generated by the buildup of static electricity it is advisable to store the media in a controlled humidity environment and to use the printer in the same environment. Ensure that the printer is sited as per recommended humidity/temperature recommendations 30-65% RH, 68-86°F (20-30°C) no condensation.

## WATER AND CHEMICAL RESISTANCE

Uvijet LF inks have very good water resistance but poor chemical 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 LF inks equates to approximately 18 months outdoor exposure in a temperate climate, such as most of United States except deep Southwest and Florida. If finished prints

will be subjected to outdoor exposure exceeding 18 months, the use of an overprint clear or over-laminate is strongly recommended.

## STORAGE

Uvijet LF 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 SPECIALITY INK SYSTEMS LIMITED:

- ▶ 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 teams works 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 LF Inks:

- ▶ Have a flash point greater than 131°F (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 LF 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.
- ▶ 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.

Media Type	Adhesion Characteristics
Self-Adhesive PVC	★★★★
PVC Banner	★★★★
Polyethylene	★★
Semi Rigid PVC	★★★★

Excellent ★★★★★ Good ★★★★★ Fair ★★★

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

## SPECIFICATIONS: UVIJET LF INK SERIES

### Uvijet LF Color Range

- ▶ LF-052/1L Yellow
  - ▶ LF-867/1L Magenta
  - ▶ LF-215/1L Cyan
  - ▶ LF-004/1L Black
  - ▶ LF-255/1L Light Cyan
  - ▶ LF-335/1L Light Magenta
  - ▶ LF-021/1L White
  - ▶ QV-100/5L Head Conditioner
- Supplied in 1 liter bottles.

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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.

Uvijet LF 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](http://ul.com/gg).

