

Uvijet LF

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

PRODUCT INFORMATION

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
- CMYKLCm plus White colour set
- Excellent inter-coat lay for back lit and solid prints
- Recommended for indoor and short-term external applications

Ink Properties

The Uvijet LF 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 LED 3200R printers and offers excellent dot reproduction and will adhere to a wide range of flexible uncoated materials.

Colour Range

LF052 Yellow
 LF867 Magenta
 LF215 Cyan
 LF004 Black
 LF255 Light Cyan
 LF335 Light Magenta
 LF021 White
 QV017 UV Flushing Solution

Supplied in 1000ml bottles.

Application Range

Uvijet LF inks are specifically formulated to maximise 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.

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.

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 cure may be obtained by selection of an alternative print mode to increase the overall UV dose. 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 build-up 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, 15-35 °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 24 months outdoor exposure in a temperate climate such as Northern Europe. If finished prints will be subjected to outdoor exposure exceeding 24 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 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 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 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.

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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