

Uvijet RL

LED UV Curing Ink System for Acuity
LED 1600R Printers

Features

- LED UV curing ink system
- Designed for use on the Acuity LED 1600R 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 RL 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 1600R printers and offers excellent dot reproduction and will adhere to a wide range of flexible uncoated materials.

Colour Range

RL052	Yellow
RL867	Magenta
RL215	Cyan
RL004	Black
RL255	Light Cyan
RL335	Light Magenta
RL021	White
RL017	UV Flushing Solution

Supplied in 600ml pouches.

Application Range

Uvijet RL inks are specifically formulated to maximise the performance of the Fujifilm Acuity LED 1600R UV curing printer. Uvijet RL 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

The Acuity LED 1600R printer has been designed to print high quality short run work previously carried out by either screen or offset printing processes.

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

PRODUCT INFORMATION



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.

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 sited as per recommended humidity/temperature recommendations 30-65% RH, 15-35 °C, no condensation.

Chemical and Abrasion Resistance

Uvijet RL 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 RL inks equates to approximately 12 months outdoor exposure in a temperate climate such as Northern Europe.

Storage

Uvijet RL 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.
- Has certification to the Quality Management Standard, ISO 9001.
- Has certification to the Occupational Health and Safety Management System Standards OHSAS 18001:2007.
- 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 RL Inks:

- Have a flash point greater than 60°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.

For optimum shelf life, all 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 product.

Environmental Information

Uvijet RL 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.

Certifications

Uvijet RL inks are approved for Nordic Swan Ecolabelled printers. The Nordic Ecolabel is a well-established and internationally recognised environmental labelling scheme that contributes to sustainable consumption and helps consumers identify environmentally-friendly products. Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.

Uvijet RL 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 RL inks has gained AgBB Guidelines

Building products may be a major source of indoor air pollution by volatile organic compounds (VOC). This product was tested following AgBB guidelines and complies with the requirements. 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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