

Uvijet RL

Uvijet RL

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.

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

UV curing ink system for Acuity LED 1600R printer



Uvijet

Uvijet RL Ink Series Features

The main features are:

- 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 colors with a wide gamut
- Satin finish
- CMYK Lc Lm plus White color set
- Excellent inter-coat lay down for back lit and solid prints
- Recommended for indoor and short-term external

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.

PRE-PRODUCTION TESTS

Uvijet RL 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 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.

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 cited as per recommended humidity/temperature recommendations 30-65% RH, 15-35°C (59-95°F), no condensation.

UVIJET ADHESION PROMOTERS

For more information on the range of the primers available, please see the Uvijet adhesion promoters product information sheet.

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 most of United States except deep SW and FL. If finished prints will be subjected to outdoor exposure exceeding 12 months, the use of an overprint clear or over-laminate is strongly recommended.

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 41°F and 86°F (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.

Adhesion Chart	
Media Type	Adhesion Characteristics
Self Adhesive PVC	★★★★
PVC Banner	★★★★
Polyethylene	* will improve with Uvijet Adhesion Promoter ★★★★

Excellent ◉◉◉◉

SPECIFICATIONS:

Uvijet RL Ink

- ▶ RL052 - Yellow
- ▶ RL867 - Magenta
- ▶ RL215 - Cyan
- ▶ RL004 - Black
- ▶ RL255 - Light Cyan
- ▶ RL335 - Light Magenta
- ▶ RL021 - White
- ▶ RL017 - UV Flushing Solution
Supplied in 600 ml pouches

Also Available:

- ▶ ZE - 1000/1 (Quart size) - Adhesion Promoter for Digital Grade Styrene, Vinyl Banner, PVC and Polycarb products
- ▶ ZE - 1000/4 (Gallon size) - Adhesion Promoter
- ▶ ZE - 720/4 - Adhesion Promoter for Coroplast
- ▶ ZE - 680/4 - Adhesion Promoter for PVC and
- ▶ Also available:

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 & Handling

Uvijet RL Inks

- ▶ Have a high flash point greater than 140°F (60°C) and therefore are exempt from the Highly Flammable Liquid Regulations
- ▶ For optimum shelf life, all

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 product.

- ▶ Comprehensive information on the safety and handling of Uvijet inks is given in the appropriate Fujifilm Safety Data Sheets available upon request.

Environmental

Information

Uvijet RL Inks

- ▶ Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- ▶ 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.
- ▶ 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 our Company, 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 RL ink approved for Nordic Swan Ecolabelled printers.

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>

