UV curing ink system for Acuity LED 1600R printer

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

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.
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 (60-95°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.

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 CONES Packing Legislation, REACH SWC 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.

Uvijet RL ink approved for Nordic Swan Ecolabelled printers.

Uvijet RL ink 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.eurolinos.com

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