

Uvijet KL

New UV LED Ink System for the Acuity LED 40 Series

Using Fujifilm's unique Micro-V dispersion technology to maximize pigment loading, the completely new Uvijet KL ink range is a high quality LED UV curable inkjet system designed for piezo drop-on-demand printheads.

The ink has been specially developed for the Acuity LED 40 series inkjet printers and offers excellent dot reproduction, strong vibrant light-fast colors and the versatility for printing both rigid and flexible Sign & Display applications using uncoated materials.

Uvijet KL is also Greenguard certified, so prints can be used safely in schools, hospitals and retail environments. Uvijet KL ink system also maintains print quality and approval consistency from manufacturing through to installation and customer sign off.



Uvijet

Features:

- High performance LED cure UV ink system
- Good to fair adhesion to rigid plastic substrates
- High satin finish
- Excellent color gamut
- Excellent inter-coatability for back lit and solid prints
- Recommended for indoor and external applications

CURING

Excellent cure and adhesion are achieved immediately on 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 lamp being used. Superior cure may be obtained by reducing the print speed to increase the overall UV dose.

PRE-PRODUCTION TESTS

Uvijet KL ink is formulated to give good adhesion to most major brands of plastic materials. 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. Also consider adhesion promoters as needed.

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 sited as per recommended humidity/temperature recommendations 40-70% RH, 64°F to 86°F (18°C to 30° C).

CHEMICAL AND ABRASION RESISTANCE

Uvijet KL inks have good chemical and abrasion resistance.

PRINT HEAD WARRANTY

Fujifilm warrant that Uvijet KL inks have been formulated to be compatible with the ink supply system of presses and will not cause damage to the print heads, providing these inks are used in accordance with the operating and servicing recommendations in the Acuity LED 40 manual and Fujifilm's ink storage conditions.

In the unlikely event that Fujifilm inks are proven to be the cause of a breakdown, then Fujifilm will replace the defective parts. In the case of a claim, any defective part will be subject to analysis in our quality assurance laboratory to determine the cause and extent of damage due to ink performance. This warranty is in addition to that set out in Fujifilm's standard terms and conditions of supply.

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 KL inks equates to approximately 18 months outdoor exposure in a temperate climate, such as most of United States except deep Southwest and Florida.

STORAGE

Uvijet KL 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.

SAFETY AND HANDLING

UVIJET KL INKS:

- ▶ Have a flash point greater than 140°F (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 KL inks is given in the appropriate Safety Data Sheets.

ENVIRONMENTAL INFORMATION

UVIJET KL 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.

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 Standard, OHSAS 18001.
- ▶ 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, 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.

Media Type	Adhesion Characteristics
Styrene	★★★★
Expanded PVC	★★★★
Acrylic	★★★★
PETG	★★★★
Coroplast	★★
Static Cling	★★★★
Foamcore	★★★★
Dibond	★★★★
Corrugated	★★★★
Polybanner	★
Vinyl Banner	★★★★
Removable Vinyl	★★★★
Backlit Film	★★★★

Excellent ★★★★★ Good ★★★★ Fair ★★★ Poor ★

Note: Some media may require an adhesion promoter for optimal performance

SPECIFICATIONS:

UVIJET KL INK SERIES

Color Range

- ▶ KL004 Black
- ▶ KL052 Yellow
- ▶ KL867 Magenta
- ▶ KL335 Light Magenta
- ▶ KL215 Cyan
- ▶ KL255 Light Cyan

Supplied in 2 liter sealed pouches

- ▶ KL021 White
- ▶ KL391 Clear

Available in 1 liter sealed containers.

- ▶ QV100 Head Conditioner

Available in 5 liter containers.

Also Available:

- ▶ ZE-1000/1 Adhesion Promoter
- ▶ ZE-1000/4 Adhesion Promoter
- ▶ ZE-720/4 Adhesion Promoter for Coroplast
- ▶ ZE-680/4 Adhesion Promoter for Acrylics

APPLICATION RANGE

Uvijet KL inks are specifically formulated to maximise the performance of the Fujifilm Acuity LED 40 printers. Performance of ink on substrate may vary across substrate manufacturers.

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

Uvijet KL 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.

