

# Uvijet WF

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Uvijet WF inks are specifically formulated to maximize the performance of the Fujifilm Acuity F printer, the fastest of the Acuity series.

The Uvijet WF ink range is a high quality UV curable inkjet system. The ink has been specially developed for the Acuity F printer and offers excellent productivity, dot reproduction, and light-fast colors and will adhere to a wide range of rigid and flexible uncoated materials. The ink formulation is also optimized to work in conjunction with the Acuity F's Automatic Maintenance System which allows for a complete cleaning in about three and a half minutes.

## UV Curing Ink System for Acuity F Inkjet Printer

The Uvijet logo features the word "Uvijet" in a bold, sans-serif font. The letter "v" is stylized with a red diagonal stroke through it.

### Uvijet WF Features:

- High performance conventional UV ink system
- Designed for high productivity
- Excellent color gamut
- Gloss finish
- CMYK Lc Lm + White color set
- Excellent inter-coat lay for back lit and solid prints
- Recommended for paper & corrugated applications

## APPLICATION RANGE

Uvijet WF inks are specifically formulated to maximize the performance of the Fujifilm Acuity F printer – model numbers F66 & F67, the fastest of the Acuity series.

Uvijet WF021 White may vary in opacity over different materials due to its wetting characteristics. It is advisable to perform a test on new materials.

Performance of ink on substrate may vary across substrate manufacturers.

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 ink thickness, substrate and the output of 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 WF ink is formulated to give excellent adhesion to most major brands of plastic, polypropylene and polyethylene 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. For information on adhesion promoters refer to the Uvijet ZE Adhesion Promoters range.

## CHEMICAL AND ABRASION RESISTANCE

Uvijet WF inks have good chemical and abrasion resistance.

## 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 40 - 70% RH, 64°F to 86°F (18°C to 30°C).

## OUTDOOR USE

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ1960 standard. Under these conditions the accelerated weathering of Uvijet WF inks equates to approximately 12 months outdoor exposure in a North American climate. 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 WF 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.

## SPECIFICATIONS: UVIJET WF RANGE

- ▶ WF052 Yellow
- ▶ WF867 Magenta
- ▶ WF215 Cyan
- ▶ WF004 Black
- ▶ WF255 Light Cyan
- ▶ WF335 Light Magenta
- ▶ WF021 White  
Available in 2 liter containers.
- ▶ QV017 UV Flush  
Available in 1 liter containers.

### Safety & Handling

#### Uvijet WF Inks

- ▶ Have a flash point greater than 131°F/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 ink is given in the appropriate Fujifilm Safety Data Sheets. Sheets available upon request.

### Environmental Information

#### Uvijet WF Inks

- ▶ Does 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.

Uvijet WF ink approved for Nordic Swan Ecolabelled printers.

### Fujifilm

- ▶ 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, ISO 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 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.

## Adhesion Chart

Media Type	Adhesion Promoter	Adhesion
Display Board		★ ★ ★
Corrugated Board		★ ★ ★
Foam-centered Board		★ ★ ★
PVC Foam Board	ZE680, ZE700	★ ★ ★
Acrylic	ZE680	★ ★ ★
Semi Rigid PVC	ZE700	★ ★ ★
Self-adhesive PVC		★ ★
Gloss Rigid PVC	ZE700	★ ★ ★
Fluted Polypropylene	ZE720	★ ★ ★
Polyethylene	ZE720	★ ★ ★
Paper		★ ★ ★
Polycarbonate	ZE700	★ ★ ★
Polystyrene	ZE700 (NOTE: DO NOT USE ZE680/ZE700)	★ ★ ★
Digital Dibond		★ ★

Excellent (★ ★ ★) Good (★ ★) Fair (★)

A = ZE680 Fusion Adhesion Promoter may optimise performance

B = ZE720 Fusion Adhesion Master may optimise performance

C = ZE700 Fusion Ultra

Uvijet WF 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](http://ul.com/gg)

