UV Curing Ink System for Acuity F Inkjet Printer

Uvijet WF

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.

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 throughput 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. 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.

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.

SPECIFICATIONS:
UVIJET WF RANGE

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Available in 1 liter containers.

Available in 2 liter containers.

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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.

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