

Uvijet KX

High quality UV curable inkjet system

Uvijet KX

The Uvijet KX ink range is a high quality, UV curable inkjet system developed for many applications from traditional POP and Sign Markets to the Packaging Markets.

Using Fujifilm's unique Micro-V dispersion technology to maximize pigment loading, Uvijet KX inks deliver vibrant, lightfast colors that last. The ink has been specifically developed for the OnsetM printer and offers superb dot reproduction and adhesion to a wide range of rigid and flexible uncoated materials.

The Uvijet KX inks provide flexibility for the post print processes printed items may require, such as cutting, creasing and routing.



Uvijet

Uvijet KX Ink Series Features

The main features are:

- Conventional UV ink system
- Excellent flexibility
- Fast cure for high production output
- Intense colors. Formulated for display applications
- Wide adhesion range
- Recommended for both internal & external applications
- Packed in Cubitainer for ease of use
- OnsetM printer developed for B1 sheet size - 27.8" x 39.4" (707 mm x 1000 mm)

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 lamps being used. Superior through cure may be obtained by reducing the print/cure speed to increase the overall UV dose.

PRE-PRODUCTION TESTS

Uvijet KX is formulated to adhere to most major brands of plastic, polypropylene, polyethylene and polystyrene materials with a surface energy level of 42 dynes/cm or higher.

Uvijet KX inks have been formulated to withstand cutting, drilling or routing finishing processes. Such work should be conducted within 24 hours of being printed. However it is strongly recommended that all substrates are tested before proceeding with a commercial run.

PLASTICS

Certain plastics may be impregnated with lubricants which, like plasticizers, migrate impairing adhesion and block resistance for a considerable period after printing. This can be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

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 KX inks equates to approximately 18 months outdoor exposure in a temperate climate, such as most of United States except deep SW and FL.

Where prolonged outdoor use is required, it is strongly recommended to obtain verification of the actual durability of the material from the manufacturer or substrate supplier prior to use to ensure that the choice of material will not adversely affect the durability of Uvijet digital inks.

STORAGE

Uvijet KX 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)

When stored in a cool environment Uvijet KX inks are expected to have a shelf-life of 12 months from date of manufacture.

Fujifilm:

- Has certification to the International Environmental Standard, ISO 14001.

The information and recommendations contained in this Technical Data 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.

- 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 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. 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.
- 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 AND HANDLING

Uvijet KX Inks:

- Have a high flash point greater than 141°F (61°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 Safety Data Sheets available upon request.

ENVIRONMENTAL INFORMATION

Uvijet KX 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.

APPLICATION RANGE

Uvijet KX has been designed to decorate a wide range of rigid and flexible materials including the following:

Adhesion Chart*	
Media Type	Adhesion Characteristics*
Acrylic Optix DA	★ ★ ★
Coroplast ^^	★ ★
Corrugated Board	★ ★ ★
Digital Dibond	★ ★ ★
Display Board / SBS	★ ★ ★
Foam Board	★ ★ ★
Foam PVC / Sintra	★ ★ ★
Paper	★ ★ ★
Polycarbonate PETG	★ ★ ★
Polyester Film/Banner	★ ★ ★
Polystyrene ^	★ ★ ★
Self-Adhesive PSV	★ ★ ★
Self-Cling	★ ★ ★
Vinyl Banner	★ ★ ★

Excellent (★★★★) Good (★★★) Fair (★★) Poor (★)

^ Non-corona treated provides the greatest adhesion

^^ Fluted Polyprop media quality varies, test before production

* Using Satin print modes

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

SPECIFICATIONS:

UVIJET KX INK SERIES

UVIJET KX COLOR RANGE

- ▶ KX215/5K Cyan
- ▶ KX867/5K Magenta Blue Shade
- ▶ KX052/5K Yellow
- ▶ KX004/5K Black
- ▶ KX017/5L Head Conditioner

Packaged in cubitainers.

- ▶ ZE680/1L Adhesion Promoter for Acrylics Liter
- ▶ ZE720/1L Adhesion Promoter for Coroplast Liter
- ▶ ZE1000/4 Adhesion Promoter Quart
- ▶ ZE1000/1 Adhesion Promoter Gallon

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

Uvijet KX 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

