

Uvijet KI

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The Uvijet KI range is a high quality UV curable inkjet system, for Piezo Drop-on-Demand print heads, specifically developed for use with the Acuity Series of printers from Fujifilm.

The inks offer superb dot reproduction, lightfast bright colors, and adhere to a wide range of rigid and flexible uncoated materials.

UV ink system for acuity series UV flatbed printers

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 KI Features:

- Conventional UV ink system
- More flexible, eliminates edge chipping
- Fast cure for high production output
- Intense colors. Wide color gamut
- Wide adhesion range
- Ideal for roll media applications, no embossing or edge curl
- Suitable for decoration of uneven substrates
- Suitable for use on the Acuity Series UV flatbed printers from Fujifilm

PRE-PRODUCTION TESTS

Uvijet KI ink is formulated to adhere to most major brands of plastic, polypropylene and polyethylene materials with 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

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 an adhesion promoter such as ZE-1000 or ZE-720 before printing.

CHEMICAL AND ABRASION RESISTANCE

Uvijet KI inks have good chemical and excellent abrasion resistance.

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 KI inks equates to approximately 12 months outdoor exposure in a temperate 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 KI ink should not be stored in direct sunlight or near heat sources and should be kept away from peroxides. In the interest of maximum shelf-life storage temperatures should be between 50°F and 100°F.

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

APPLICATION RANGE

The Acuity Series of UV flatbed printers and Uvijet KI ink combine to create a world of printing opportunities.

Uvijet KI inks are designed to decorate a wide range of uncoated media, including:

Adhesion Chart

| Media Type | Adhesion Characteristics |
|--------------------------|--------------------------|
| Pace Biographics Styrene | ★★★★★ |
| Pace Digihips | ★★★★★ |
| Acrylic with 680 | ★★★★★ |
| PETG | ★★★★★ |
| Coroplast with 720 | ★★★★★ |
| Ultraflex Vinyl Banner | ★★★★★ |
| Kommerling PVC | ★★★★★ |
| Orojet 3640G-010 | ★★★★★ |
| 3M Control Tac | ★★★★★ |
| Flexcon DPN Silver Matte | ★★★★★ |

Excellent (★★★★★) Good (★★★★) Fair (★★★)
Note: Some media may require an adhesion promoter for optimal performance.

CURING

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

SPECIFICATIONS:

UVIJET KI INK

Uvijet KI Color Range

- ▶ KI - 215/2L - Cyan
- ▶ KI - 052/2L - Yellow
- ▶ KI - 004/2L - Black
- ▶ KI - 867/2L - Magenta

*All are available in 2L sealed bags

- ▶ *KI - 021/1L - White

*Available 1L in sealed bag

- ▶ QV - 100/5L - Head Conditioner

Also available:

- ▶ KN - 391/1L - Clear
- ▶ ZE - 1000/1 - Adhesion Promoter
- ▶ ZE - 1000/4 - Adhesion Promoter
- ▶ ZE - 720/4 - Adhesion Promoter for Coroplast
- ▶ ZE - 680/4 - Adhesion Promoter for Acrylics

Safety & Handling

Uvijet KI Inks

- ▶ Are free from N-Vinyl-2-pyrrolidone, which is suspected of causing cancer.
- ▶ High flashpoint and therefore are exempt from the Highly Flammable Liquid Regulations.
- ▶ Are formulated free from lead and other heavy metals and therefore should comply to the American Toy standard ASTM F963 Safety regulations.
- ▶ These products are formulated to meet CONEG Packing Legislation and ROHS Electrical and Electronic Equipment Directive.

Comprehensive information on the safety and handling of Uvijet KI inks is given in the appropriate Fujifilm Material Safety Data Sheets available upon request.

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 Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

Uvijet KI ink approved for Nordic Swan Ecolabelled printers.