



Uvijet UV Curable Inkjet Inks exclusively designed for the Inca flatbed printers

Using FUJIFILM Sericol's unique Micro-V dispersion technology to maximize pigment loading, the Uvijet range of UV curing inks delivers vibrant, light fast colors that last. The main advantages of Uvijet are:

Features

- Reduces edge curl, puckering and embossing on flexible substrates
- Greater flexibility reduces edge chipping during post print finishing
- Fast cure for high production output
- Utilizes **MICRO-V** technology to produce the widest available color gamut
- Ultra low print odor
- Wide adhesion range to rigid and flexible substrates
- Recommended for both internal and external applications
- Suitable for decoration of uneven substrates
- Suitable for use on the Columbia, Columbia Turbo, Spyder 320 and Spyder V.

Ink Properties

The Uvijet EF range is a high quality UV curable inkjet system, for Piezo Drop-on-Demand print heads, specifically developed for use with the Inca flatbed printers. The inks offer superb dot reproduction, light fast bright colors, and adhere to a wide range of rigid and flexible uncoated materials.

Color Range

EF - 215/5K	Cyan
EF - 052/5K	Yellow
EF - 004/5K	Black
EF - 867/5K	Magenta Blue Shade
EF - 135/5K	Magenta Yellow Shade
*EF - 021/5K	White
*EF - 255/5K	Light Cyan
*EF - 335/5K	Light Magenta
QV - 017/5L	Flushing Solution

* Only for six color Inca flatbed printers.

Also available:

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

Application Range

The Inca flatbed presses and Uvijet EF ink combine to create a world of printing opportunities. Uvijet EF inks are designed to decorate a wide range of media, including:

Media Type	Adhesion Characteristics
Clear PVC	★★★★★
Pace Digihips Styrene	★★★★
Static Cling	★★★★★
Acrylic w/o ZE680	★
Acrylic with ZE680	★★★★★
Coroplast with ZE720	★★★★★
PETG	★★★★★
Sintra	★★★★★
Screen Grade Styrene	★★★
3M Control Tac	★★★★★

Excellent ★★★★★ Good ★★★ Fair ★

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

Pre-production Tests

Uvijet EF 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. Use of an adhesion promoter may greatly improve adhesion.

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 speed to increase the overall UV dose.

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 adhesion promoter before printing.

The end user must determine suitability of this product for the intended use prior to production.

Chemical and Abrasion Resistance

Uvijet EF 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 EF inks equates to approximately 24 months outdoor exposure in a temperate climate, such as North America.

Storage

Uvijet EF 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.



Safety and Handling

Uvijet Inks

- Are free from N-Vinyl-2-pyrrolidone, which is suspected of causing cancer.
- High flash point 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.
- Comprehensive information on the safety and handling of Uvijet inks is given in the appropriate Fujifilm Sericol Material Safety Data Sheets available upon request.

Environmental Information

Uvijet Inks

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons known to have an adverse effect on the environment.
- Are free from any volatile solvent and therefore beneficial to the environment when compared to solvent-based products.

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.