

Uvijet XS

Flexible
Multi-faceted
UV curable
inkjet
system

Uvijet XS Ink Series

The Uvijet XS range is a premium, high quality UV curable inkjet system, for Fujifilm Dimatix Piezo Drop-on-Demand print heads, specifically developed for use on the SpyderX series of wide format printers.

Using Fujifilm's unique Micro-V dispersion technology to maximize pigment loading, the Uvijet XS range of UV curing inks delivers strong vibrant colors and the versatility for printing both rigid and flexible Sign & Display applications.

The XS range of inks offer superb dot reproduction, bright vivid colors and provide excellent finishing characteristics. SpyderX Uvijet XS inks were developed working in partnership with sister company and printhead manufacturer Fujifilm Dimatix to develop optimum ink chemistry for the printheads. SpyderX utilizes Fujifilm Dimatix QClass printheads that are reliable, trusted and are used in several inkjet platforms.



Uvijet

Features:

- Conventional UV ink system
- Specifically formulated for the SpyderX printer for maximum productivity
- Intense colors formulated for display POP applications
- Provides the flexibility required for finishing
- Recommended for internal and short term external promotions
- Ideally suitable for decorating uneven substrates
- Excellent adhesion and flexibility

POST CURING

The chemical reactions involved in curing UV inkjet inks are not totally completed in the curing unit itself. While up to 90% of the chemical bonds needed to give adhesion, etc are completed, there is a post cure period when chemical bonds continue to be made. Until recently it was believed that post cure was completed within 24 hours. Study has shown that although much of the post cure activity does take place within 24 hours, it is now thought the total post cure period can last for a few weeks. This is important to recognize as the UV cure process, and post curing, can cause shrinkage of the ink film, which puts stress on the material. In the case of selfadhesive PVC the stress manifests itself as cracking or shattering (embrittlement) of the substrate. It is therefore important to be cautious if your results immediately after curing are border line for embrittlement as the additional post cure stress may cause more serious problems later on.

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

OUTDOOR USE

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ 1960 standard. Under these conditions the accelerated weathering of Uvijet XS inks equates to approximately 18 months outdoor exposure in a temperate climate, such as North America.

Uvijet XS 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.



PRE-PRODUCTION TESTS

Uvijet XS is formulated to adhere to most major brands of plastic, polypropylene, polyethylene and non-corona treated polystyrene materials.

Uvijet XS inks have been formulated to withstand cutting, drilling or routing finishing processes. Such work should be conducted within 24 hours of being printed. Substrate should be tested by the printer on a job by job basis.

Plastics: Certain plastics may be impregnated with lubricants, which, like plasticizer migration, may impair adhesion even after a considerable time period after printing. This together with contamination of the surface (e.g. finger marks) will impair adhesion further and is likely to be visible post printing.

STORAGE

Uvijet XS should not be stored in direct sunlight or stored near heat sources and should be kept away from peroxides. For optimum shelflife storage temperatures should be between 41°F to 86°F (5°C to 30°C). When stored in a cool environment the inks are expected to have a shelf life of 12 months from date of manufacture.

ENVIRONMENTAL INFORMATION

Uvijet XS Inks

- ▶ Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- ▶ Are formulated free from aromatic hydrocarbons.
- ▶ Are free of any volatile solvent and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

SAFETY & HANDLING

UVIJET XS INKS:

- ▶ Are free from N-Vinyl-pyrrolidone, which is suspected of causing cancer.
- ▶ Have a 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. 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 inks is given in the appropriate Fujifilm Material Safety Data Sheets available upon request.*

Media Type	Adhesion Characteristics*
Display Board	★ ★ ★
Corrugated Board	★ ★ ★
Foam Board	★ ★ ★
Foam PVC	★ ★ ★
Flexible PVC	★ ★ ★
Self-Adhesive PVC	★ ★ ★
Polythylene	★ ★ ★
Paper	★ ★ ★
Polystyrene**	★ ★
Aluminum Composite	★ ★ ★
Self-Cling	★ ★
Vinyl Banner	★ ★ ★
PETG	★ ★ ★
Digital Acrylic	★ ★

Excellent ★ ★ ★ Good ★ ★ Fair ★

* Using Satin print modes without adhesion promoter

** Polystyrene that is not corona treated provides the greatest adhesion

SPECIFICATIONS: UVIJET XS SERIES INK

Color Range

- ▶ XS-215/5K Cyan
- ▶ XS-052/5K Yellow
- ▶ XS-867/5K Magenta
- ▶ XS-004/5K Black
- ▶ XS-255/5K Light Cyan
- ▶ XS-335/5K Light Magenta
- ▶ XS-021/5K White
- ▶ QV-100/5L Head Conditioner

Application Range

Uvijet XS inks have been formulated for use with a wide variety of applications these include:

- ▶ Display POP
- ▶ Exhibition Graphics
- ▶ Backlit Displays
- ▶ Short Term Signage
- ▶ Single Sheet Posters

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

Also available:

- ▶ ZE-1000/1 Adhesion Promoter
- ▶ ZE-1000/4 Adhesion Promoter
- ▶ ZE-720/4 Adhesion Promoter for Coroplast
- ▶ ZE-680/4

Adhesion Promoter for Acrylics Application Range

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 & 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.