

# Uvijet KH

## UV Curing Ink System for the Onset M Series Printers

The Uvijet KH ink range is a high quality, UV curable inkjet system developed for the display POP and signage markets. The inks provide superior resistance to the post print processes printed items may require, such as cutting, creasing and routing. Uvijet KH has been specifically designed to achieve excellent adhesion on rigid plastic materials of all grades.

### INK PROPERTIES

Using Fujifilm's unique Micro-V dispersion technology to optimise pigment loading, Uvijet KH UV curing inks deliver vibrant, lightfast colors that last. The ink has been specifically developed for the Onset M Series printers and offers superb dot reproduction and adhesion to a wide range of materials, particularly challenging rigid plastic materials of all grades.



Uvijet

### Features:

- Excellent adhesion range
- Fast cure for high production output
- Wide color gamut
- Recommended for both internal & external applications
- Conventional UV ink system
- Specifically formulated for the ONSET M printer for maximum productivity

## 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 film 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 KH 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 KH 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 plasticisers, 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.

## PRINT HEAD WARRANTY

Fujifilm warrant that Uvijet KH inks have been formulated to be compatible with the ink supply system of presses and will not cause damage to the print heads, providing these inks are used in accordance with the operating and servicing recommendations in the Onset M manual and Fujifilm's ink storage conditions.

In the unlikely event that Fujifilm inks are proven to be the cause of a breakdown, then Fujifilm will replace the defective parts. In the case of a claim, any defective part will be subject to analysis in our quality assurance laboratory to determine the cause and extent of damage due to ink performance. This warranty is in addition to that set out in Fujifilm's standard terms and conditions of supply.

## 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 KH inks equates to approximately 18 months outdoor exposure in a temperate climate, such as most of United States except deep Southwest and Florida.

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 KH 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 and 30°C.)

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

## SAFETY AND HANDLING

- ▶ Have a flash point greater than 60°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 inks is given in the appropriate Safety Data Sheets.

## ENVIRONMENTAL INFORMATION

- ▶ Do 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.
- ▶ 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.

## FUJIFILM SPECIALITY INK SYSTEMS LIMITED:

- ▶ 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 Management System Standard OHSAS 18001:2007.
- ▶ 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.

Media Type	Adhesion Characteristics
Display Board	★ ★ ★
Foam Board	★ ★ ★
Foam PVC	★ ★ ★
Acrylic	★ ★ ★
Flexible PVC	★ ★ ★
Self-Adhesive PVC	★ ★ ★
Gloss Rigid PVC	★ ★ ★
Fluted Polypropylene	★ ★ ★
Polyethylene	★ ★ ★
Paper	★ ★ ★
Polycarbonate	★ ★ ★
Polystyrene	★ ★ ★
Polyester	★ ★ ★
Digital Dibond	★ ★ ★
Self-Cling	★ ★ ★

Excellent ★ ★ ★ Good ★ ★ Poor ★

## SPECIFICATIONS: UVIJET KH INK SERIES

### Color Range

- ▶ KH215 Cyan
- ▶ KH867 Magenta Blue Shade
- ▶ KH052 Yellow
- ▶ KH004 Black
- ▶ KX017 UV Head Conditioner\*

\*KX017 UV Head Conditioner is compatible with the KH ink range

Available in 5 liter cubitainers

### 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

**Uvijet KH has been designed to decorate a wide range of materials including challenging rigid plastic materials of all grades. Uvijet KH will also adhere to all flexible materials, although ink flexibility criteria should be assessed by the customer.**

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