

Uvijet OB

UV Curing Ink System for the Inca Onset Series of Printers



PRODUCT INFORMATION

The Uvijet OB ink range is a high quality, UV curable inkjet system developed for display POP applications.

Features

- Conventional UV ink system
- Specifically formulated for the Onset printers for maximum productivity
- Intense colours formulated for display POP applications
- Two finish levels – high impact gloss and low glare satin
- Low print odour
- Recommended for internal & short term external applications
- Suitable for decorating uneven surfaces
- Excellent adhesion

Ink Properties

Using Fujifilm's unique Micro-V dispersion technology to maximise pigment loading, Uvijet OB UV curing inks deliver strong vibrant colours for Display POP applications. The ink has been specially developed for the Inca Onset flatbed printers and offers superb dot reproduction and similar finishing characteristics to any other display UV screen ink system from Fujifilm.

Colour Range

OB215 Cyan
OB052 Yellow
OB867 Magenta Blue Shade
OB135 Magenta Pink Shade
OB004 Black
OB255 Lt Cyan
OB335 Lt Magenta Blue Shade
Available in 5 kilo containers

QV017 UV Flush
Available in 1 and 5 litre containers

ZE720 Adhesion Master
Available in 1 litre containers

Application Range

Uvijet OB has been formulated for use with a wide variety of applications including:

- Display POP
- Exhibition graphics
- Backlit displays
- Short term signage
- Single sheet posters

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

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.

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 recognise 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 self-adhesive 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 borderline for embrittlement as the additional post cure stress may cause more serious problems later on.

Pre-production Tests

Uvijet OB is formulated to adhere to most major brands of plastic, vinyl, display and corrugated board and paper. Uvijet OB will also adhere to polypropylene, materials primed with ZE720 Adhesion Master for most short term outdoor applications, but this should be tested by the printer on a job by job basis.

Plastics

Certain plastics may be impregnated with lubricants which, like plasticisers, migrate impairing adhesion and block resistance for a considerable 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.

Chemical and Abrasion Resistance

Uvijet OB inks have good chemical and excellent abrasion resistance. However, for optimum resistance

over-varnishing with a durable UV screen varnish such as Uvibond UV383 is recommended.

Storage

Uvijet OB 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 5°C and 30°C.

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

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 Standard, ISO 18001.
- Is committed to minimising the risk to users of our products, and also to minimising 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.

- 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 OB Inks:

- Have a flash point greater than 55°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

Uvijet OB Inks:

- 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.

Uvijet ZE720 Adhesion Master:

- Does not contain ozone-depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Speciality Ink Systems Limited and its associated companies, 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.

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