



Uvijet OB UV Curable inkjet inks exclusively designed for the Inca Onset S20 & S70 flatbed printers.

Using Sericol's unique Micro-V dispersion technology to maximise pigment loading, the Uvijet range of UV curing inks delivers strong vibrant colours for Display PoP applications. The main advantages are:

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 and short term external promotions
- Ideally suited for decorating uneven substrates
- Excellent adhesion

Ink Properties

The Uvijet Onset OB range is a high quality UV curable inkjet system, for Piezo Drop-on-Demand print heads, specifically developed for use on the Inca Onset flatbed range of printers.

The inks offer superb dot reproduction, bright vivid colours and provide similar finishing characteristics to any other display UV screen ink system from Sericol.

Uvijet Onset OB Trichromatic Colour Range

OB215	Trichromatic Cyan
OB052	Trichromatic Yellow
OB867	Trichromatic Magenta
OB135	Magenta Yellow Shade
OB004	Trichromatic Black
OB103	Orange
OB132	Violet
OB255	Lt Cyan
OB335	Lt Magenta

Available in 5 kg containers

QV017 Flushing Solution

Available in 1 and 5 ltr containers

ZE720 Adhesion Master

Available in 1 ltr containers

Application Range

Uvijet Onset OB 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.

Co-use with Other Inks:

Uvijet Onset OB may be printed over and over printed by Omniplus UL, Uviplast 2000 UP and Multiflash UZ ink systems. The compatibility of combined systems must be evaluated under production conditions before commencing a production run. Note: full intercoat adhesion may not develop fully until 24 hours after printing.

Curing Information

Excellent cure and adhesion are achieved immediately on curing. However, adhesion, chemical, scuff and scratch resistance may not be obtained until 24 hours after initial cure.

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.

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PRODUCT INFORMATION

Pre-production Tests

Uvijet Onset OB ink is formulated to adhere to most major brands of plastics, vinyls, display and corrugated boards and papers. Uvijet Onset 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 plasticiser 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. To overcome this problem the Onset can be fitted with an off-line material cleaning system to remove these impurities from the substrate surface thus improving the quality of the finished print, plus reducing static which is likely to attract particular matter from the surrounding airflow.

Chemical and Abrasion Resistance

Uvijet Onset 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 Onset OB should not be stored in direct sunlight or near warm pipes and should be kept away from peroxides. In the interest of maximum shelf life storage temperatures should be between 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.

Fujifilm Sericol UK Limited:

- Has certification to the International Environmental Standard, ISO 14001.
- 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 & 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.

The information and recommendations contained in this Product Information 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 Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

Safety and Handling

Uvijet Onset OB Inks

- Have a flashpoint 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 Onset OB inks, is given in the appropriate Safety Data Sheets.

Environmental Information

Uvijet Onset OB 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.

Uvijet Adhesion Master – ZE720

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

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