

Uvijet VN

UV Curing Ink System for Vybrant F1600 Inkjet Printer

PRODUCT INFORMATION



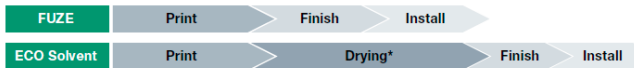
Features

Fujifilm's FUZE technology is the latest advance in the world-leading Uvijet ink family.

- FUZE technology ink system
- High quality images
- Good adhesion
- High gloss finish on self-adhesive vinyl
- Immediate scratch resistance
- Excellent chemical resistance

Ink Properties

The Uvijet VN ink range is a highly functional UV ink within a volatile carrier designed for piezo drop-on-demand printheads. The carrier is flashed off to pin the ink before it is fully cured under a low intensity UV lamp. This results in a low build, durable ink film that requires no degassing before finishing and shipping in contrast to eco solvent inks.



**Drying requires a minimum of 8 hours to de-gas*

Colour Range

VN052 Yellow
 VN867 Magenta
 VN215 Cyan
 VN004 Black
 Supplied in 600ml pouches

70100114821 Flushing Liquid 07
 Available in 220 ml pouches

Application Range

Uvijet VN inks are specifically formulated for use on roll media with the Vybrant F1600 printer. The performance may vary across substrate manufacturers.

Media Type	Adhesion Characteristics
Self-Adhesive PVC	✓✓✓
PVC Banner	✓✓✓✓

Excellent ✓✓✓✓ Good ✓✓✓ Fair ✓✓ Poor ✓

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 upon print and UV 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 age of the UV curing lamps. Superior through cure may be obtained by reducing the print speed by selection of an alternative print mode to increase the overall UV dose.

Pre-production Tests

Uvijet VN ink is formulated to give excellent adhesion to most major brands of banner and self-adhesive vinyls; performance however can vary across media types. It is therefore strongly recommended that all substrates are tested before a commercial run.

Plastics

Some plastic substrates may contain lubricants which, like plasticisers, may impair adhesion and block resistance for a considerable time after printing.

There may also be residues from glues and adhesives used on backing sheets. This can be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

Ensure that the printer is cited as per recommended humidity/temperature recommendations 40-70% RH, 18-30 °C.

Chemical and Abrasion Resistance

Uvijet VN inks have excellent chemical and abrasion resistance.

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 VN inks equates to approximately 24 months outdoor exposure in a temperate climate such as Northern Europe.

Storage

Uvijet VN 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. Storage outside of these temperatures may lead to deterioration in the performance of the products.

When stored in a cool environment the 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 VN:

- Is formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC.
- Has a flash point greater than 55°C and is therefore not classified as a '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 VN:

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

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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