

Uvijet HF

High Adhesion LED Curing Ink System for the Acuity Prime Series Inkjet Printers.

Ink Properties

The tables below detail the available data on adhesion performance of the Flatbed ink range. Please note that these are generic recommendations, and all substrates should be tested before use to ensure that the finished print performs as required for the end application.

| Media Type | Adhesion Characteristics | Media Type | Adhesion Characteristics |
|----------------|--------------------------|-------------------|--------------------------|
| Polycarbonate | ✓✓✓ | Self-Adhesive PVC | ✓✓✓ |
| Styrene | ✓✓✓ | PVC Foam Board | ✓✓✓ |
| Acrylic | ✓✓ | Priplak | ✓✓ |
| APET | ✓✓✓ | Correx | ✓✓✓ |
| Display Board | ✓✓✓ | Dibond | ✓✓✓ |
| Semi Rigid PVC | ✓✓✓ | PVC Banner | ✓✓✓ |

Key: Excellent ✓✓✓ Good ✓✓ Fair ✓

Features:

- Low maintenance, low ink waste
- Good print quality
- High fingerprinting resistance
- Low satin finish upon cure
- Good adhesion on all media
- Good blocking on all media
- Excellent flexibility for applications where folding and creasing are required.

Product range

| Product Code | Description | Pack Size |
|--------------|------------------|-----------|
| HF052 | Yellow | 2kg |
| HF215 | Cyan | 2kg |
| HF867 | Magenta | 2kg |
| HF004 | Black | 2kg |
| HF021 | White | 1kg |
| HM-HC | Head Conditioner | 1kg |

Ink Properties

The Uvijet HF ink range is a quality LED UV curable inkjet system designed for piezo drop-on-demand printheads. The ink has been specially developed for the Acuity Prime series printers and offers very good dot reproduction, light-fast colours and will adhere to a range of rigid and flexible materials.

Application Range

Uvijet HF inks are specifically formulated to maximise the performance of the Acuity Prime. Performance of ink on substrate may vary across substrate manufacturers.

IMPORTANT

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

Excellent adhesion and film hardness properties are achieved immediately after print and 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 on factors such as ink film thickness, colour, LED settings and the print mode being used. Modifications to all of these factors can be made to improve the cure of the final ink film.

Pre-production Tests

Uvijet HF ink is formulated to give good adhesion to most major brands of plastic materials. Polyolefins should have a surface energy level of 42 dynes/cm or higher. However, it is strongly recommended that all substrates are tested before a commercial run. For information on adhesion promoters refer to the Uvijet HF Primer.

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 sited in an environment where temperature and humidity can be controlled as per the recommendations: 40-70% RH, 18-30C.

Chemical and Abrasion Resistance

Uvijet HF inks have good chemical and abrasion resistance.

Print Head Warranty

Fujifilm warrant that Uvijet HF inks have been formulated to be compatible with the ink supply system of Acuity printers. These inks must be used in accordance with the operating and servicing recommendations in the Acuity Prime manual and Fujifilm's ink storage conditions.

In the unlikely event that Fujifilm inks are proven to be the cause of a breakdown, 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 SAEJ 1960 Standard. Under these conditions the accelerated weathering of Uvijet HF inks equates to approximately 24 months outdoor south facing exposure in a temperate climate such as Northern Europe.

Storage

Uvijet HF 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 5C and 30C. 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.

Safety and Handling

Uvijet HF Inks:

Have a flash point greater than 60oC and are therefore not classified as 'dangerous substances' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of Uvijet HF inks is given in the appropriate Safety Data Sheets.

Environmental Information

Uvijet HF 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.

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, OHSAS 45001.

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.



Uvijet HF 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.



Uvijet HF inks have gained AgBB certification

Building products may be a major source of indoor air pollution by volatile organic compounds (VOC). In Germany, the

Committee for Health-related Evaluation of Building Products (Ausschuss zur gesundheitlichen Bewertung von Bauprodukten AgBB) have certified that Uvijet HF is suitable for use on wallcoverings. More detail here <http://www.eurofins.com>

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Specialty 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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