

Uvijet HM

UV- LED Curing Ink System for Acuity Prime Series Inkjet Printers

The table 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 finish print performs as required for the end application.

Media Type	Adhesion Characteristics	Media Type	Adhesion Characteristics
Polycarbonate	✓✓✓	Dibond	✓✓✓
HIPS	✓✓✓	PVC Foam Board	✓✓✓
PETG	✓✓	Matte PVC	✓✓✓
Clear PVC	✓✓✓	Gloss PVC	✓✓✓
Self-adhesive PVC	✓✓✓		

Key: Excellent ✓✓✓ Good ✓✓ Fair ✓

Features:

- Low maintenance, low ink waste
- Good print quality
- Good adhesion on all media
- Blocking is good on all media
- Excellent colour gamut
- Excellent flexibility for applications where folding and creasing are required.

Ink Properties

The Uvijet HM 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 Prime series printers and offers very good dot reproduction, light-fast colours and will adhere to a range of rigid and flexible materials.

Product Range

Product Code	Product Description	Pack size
HM215	UV LED Cyan	2L
HM867	UV LED Magenta	2L
HM052	UV LED Yellow	2L
HM004	UV LED Black	2L
HM021	UV LED White	1L
HM502	UV LED Primer	1L
HM391	Clear	1L
HM-HC	Head Conditioner	1L

Application Range

Uvijet HM 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 HM 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 HM 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, 18-30°C.

Chemical and Abrasion Resistance

Uvijet HM inks have good chemical and abrasion resistance.

Print Head Warranty

Fujifilm warrant that Uvijet HM 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 HM inks equates to approximately 24 months outdoor south facing exposure in a temperate climate such as Northern Europe.

Storage

Uvijet HM 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.

Safety and Handling Uvijet HM Inks:

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

Environmental Information Uvijet HM 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 HM 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.

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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