



FUJIFILM

Uvijet UH

UV-LED CURING INKS

Uvijet

The Uvijet UH ink range is a quality LED curable inkjet system designed for use with Acuity Ultra Hybrid LED superwide piezo drop-on-demand printers. Using the highest quality pigments and Fujifilm's unique Micro V dispersion technology, Uvijet UH inks produce class leading color gamut increasing the number of colors printable while simultaneously maximizing outdoor light fastness for prints with lasting impact on both rigid and flexible media.

Uvijet UH Features

Robust jetting reliability and bright vibrant color

Excellent inter-coat lay down for back lit and solid prints

Excellent cost in use with ultra-low ink film deposit

Low in print odor (dependent on material/lamp setting used)

Recommended for internal and external applications and improved impact resistance including scrunch and fold

UL Greenguard Gold certified and AgBB approved

APPLICATION RANGE

Uvijet UH inks are specifically formulated to provide excellent adhesion to many flexible and rigid materials, giving superb output quality, even at high speeds. These inks are suitable for a wide range of media such as banners, mesh, blueback or backlit paper, self-adhesive vinyl, acrylic, polycarbonate, PET and many more coated and uncoated media.

Main applications include high end luxury backlit displays, exhibition graphics, interior decoration and wallpapers, display POP and banners/posters.

The end user must determine the stability of this product for the intended use prior to production.

PRE-PRODUCTION TESTS

Uvijet UH 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.

CURING

Excellent cure and adhesion are achieved immediately upon print and UV-LED 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, color, substrate, the UV-LED settings and print mode being used. Modifications to all of these factors can be made to improve the cure of the final ink film.

CHEMICAL AND ABRASION RESISTANCE

Uvijet HZ inks have good water and abrasion resistance. For optimum print durability it is recommended to laminate prints to protect the surface from abrasion and chemical attack. Tests need to be made to confirm laminate suitability.

PLASTICS

Certain plastics may contain lubricants which, like plasticizers, migrate impairing 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.

To reduce the risk of problems generated by the build-up of static electricity it is advisable to pass an earthed anti-static brush over the material prior to printing. Ensure that the printer is cited as per recommended humidity/temperature recommendations 40 - 70% RH, 64°F to 86°F (18°C to 30°C).

OUTDOOR USE

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ1960 standard. Under these conditions the accelerated weathering of Uvijet UH inks equates to approximately 12 months outdoor exposure in a temperate climate.

STORAGE

Uvijet UH 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 41°F to 86°F (5°C to 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.

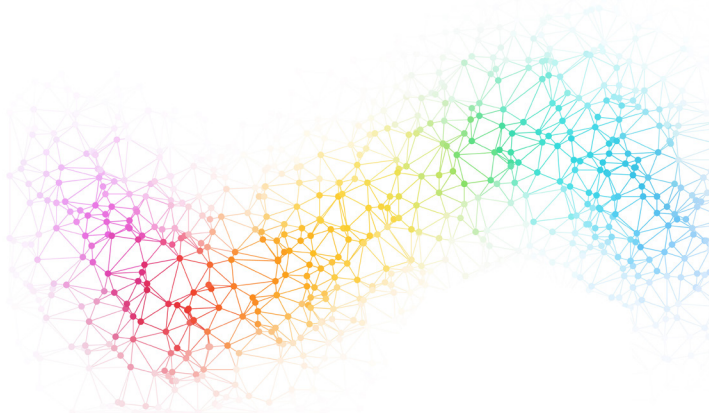
PRINT HEAD WARRANTY

Fujifilm warrant that Uvijet UH inks have been formulated to be compatible with the ink supply system of the Acuity Ultra Hybrid LED printers and will not cause damage to the print heads, providing these inks are used in accordance with the operating and servicing recommendations in the Acuity Ultra Hybrid LED manual and Fujifilm's ink storage conditions. In the unlikely event that Fujifilm inks are proven to be the cause of a breakdown, then 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 from date of manufacture.

The information and recommendations contained in this Technical Data 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 Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

Adhesion Chart	
Media Type	Adhesion
Styrene (HIPS)	★★
Gloss PVC	★★★★
Self-Adhesive PVC	★★★★
Clear PVC	★★
PETG	★★★★
Polycarbonate	★★★★
Dibond	★★★★

Excellent ★★★★★
Good ★★★★★
Fair ★





Uvijet UH Specifications

COLORS & SIZING

Supplied in 5 kilogram containers:

- UH-052 Yellow
- UH-867 Magenta
- UH-215 Cyan
- UH-004 Black
- UH-255 Light Cyan
- UH-335 Light Magenta

Supplied in 1 kilogram containers:

- UH-021 White
- UH-HC Head Conditioner

SAFETY & HANDLING

Have a flash point greater than 140° F (60° C) and are therefore not classified as 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Ink bottles must be shaken before loading into the machine ink tanks.

Comprehensive information on the safety and handling of Uvijet ink is given in the appropriate Fujifilm Safety Data Sheets. Sheets available upon request.

ENVIRONMENTAL INFORMATION

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

Are formulated free from aromatic hydrocarbons.

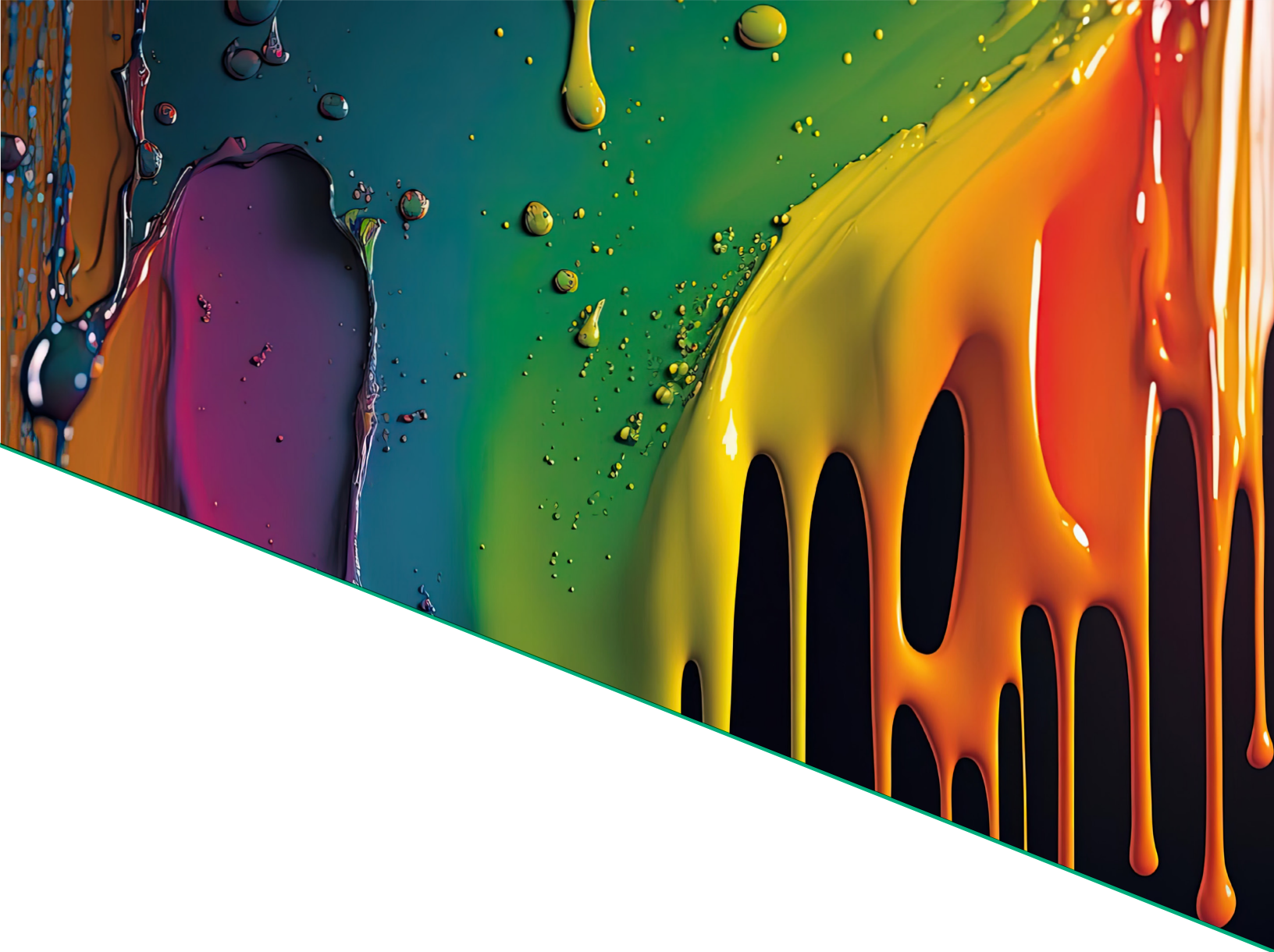
Are free from any volatile solvent and can therefore be considered to have less impact on the environment when compared to solvent-based products.

Fujifilm Specifications

- Certified to the International Environmental Standard ISO 14001.
- Certified to the Quality Management Standard ISO 9001.
- Certified to the Occupational Health and Safety Standard ISO 45001.
- Committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through 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 UH 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). Find more detail at ul.com/gg.





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Value from Innovation