



FARBAJET-H

High performance LED-curable Inkjet inks designed for flexible and rigid substrates such as glass and metals.

Compatible with a variety of piezo print heads that are often used with UV printers.

Fields of application

Farbajet-H is a high-performance LED curable ink exclusively designed for rigid and semi-flexible substrates such as:

- Glass (after pretreatment)
- Coated Metals (uncoated with pretreatment)
- Aluminium Composite panels (Dibond®)
- Semi-flexible materials (PVC, PET-A, PET-G, PC, PP etc.)

It is suitable for wide format UV printers equipped with piezo printheads, demanding a viscosity of 6 to 11 cP at jetting temperature with LED curing. The optimum injection temperature depends on the configuration of each machine but is usually between 35 and 45 °C. The ink contains pigments engineered with ultra-fine particle sizes, ensuring optimal dispersion and smooth application for high-quality printing.

Compatible printer heads

Devices using the print heads listed below are compatible with this Farbajet-H ink:

- Kyocera KJ4A
- Ricoh Gen4, Gen 5 and Gen 6

Preliminary testing is necessary before printing since different substrates may have different surface characteristics that affect their printability.

Ink Set and Auxiliaries

Farbajet-H ink offers a wide colour gamut. The ink set consists of Yellow, Magenta, Cyan, Black and White colours. It is suitable for multi-pass printing with excellent image quality. The white ink offers high opacity and good jetting reliability. For the ink change-over, it is recommended to use the cleaners listed in the table. We do not recommend this ink for toys due to the foreseeable contact with the mouth since the possible presence of residual monomers and decomposition products of the photo-initiators cannot be excluded even when sufficiently cured.

Jetable Inks and Auxiliaries

BASIC COLORS	SHADES	COLORS	CODE
YELLOW	Standard		FJT (H) - JET UV-LED 203
MAGENTA	Standard		FJT (H) - JET UV-LED 302
CYAN	Standard		FJT (H) - JET UV-LED 506
BLACK	Standard		FJT (H) - JET UV-LED 900
WHITE	Standard		FJT (H) - JET UV-LED 100
AUXILLIARIES			
UV-LED 002V		Varnish	Protective coating
RFR 241		Cleaner	Flush
APT 246		Primer	Pre-coat
IJM/M1		Primer	Pre-coat for glass
APT 276		Primer	Pre-coat

Characteristics

Pre-treatment

we recommend Flame pre-treatment using the VetroJet Pro surface enhancement machine, equipped with the VetroCart 180 and 180 P cartridges; and primer APT 276 ensuring optimal surface preparation for glass and metal substrates. Priming can significantly improve the adhesion properties on challenging substrates like glass, or metals (coated, anodized or powder coated surfaces). It may be advisable to remove dust and other impurities off the glass and metal surface prior

The above statements are accurate to our best knowledge and belief. However, due to the great number of possible influences during the manufacture of the substrate and the variation in the application process we suggest that suitability testing take place under actual conditions before production. No legally binding guarantee of certain properties or of the suitability for a definite application purpose can be derived from the above information.

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to printing. This will help in enhancing the adhesion properties of the ink.

Drying

Farbajet-H is a LED curable ink, and best curing is achieved at a wavelength of 395 nm. This post-curing UV ink will achieve the final adhesion and resistances after 24 hours. The curing speed depends on the type of UV-curing unit (reflectors), number, age, and power of the UV lamps, the printed ink film thickness, colour shade, substrate in use, as well as the printing speed.

Post Treatment

It may be advisable to apply a post coat of the jettable varnish UV-LED 002V. It is specially designed to provide gloss and protection for digital design. This will help in enhancing the aesthetical properties of the ink.

Fade resistance

The Farbajet-H series consists of pigments with high fade resistance. The Farbajet-H series uses colours with great fade resistance. All basic shades can be exposed vertically outside for two years with a mild temperature and appropriate substrates. All tests have been performed according to ASTM D-2565-99.

Color	Blue Wool Scale
FJT (H)-JET UV-LED 203	8
FJT (H)-JET UV-LED 302	7-8
FJT (H)-JET UV-LED 506	7-8
FJT (H)-JET UV-LED 900	8

Shelf Life

The shelf life for an unopened ink container if stored in a dark room at a temperature of 5 - 30 °C is:

- 1 year for 203, 302, 302L, 506, 506L, 900, 002V
- 9 months for 100

The ambient temperature may fall below this value only once for max. 2-3 days. Under different conditions, particularly other storage temperatures, the shelf life is reduced.

Change over

This ink set comes with a cleaner i.e., RFR 241 for flushing and maintenance purpose. This cleaner has been chemically

adjusted to the ink. It is recommended that before changing over to Farbajet-H inks all the ink carrying components must be drained and rinsed with cleaner RFR 241. It can also be used if any part needs to be soaked for a while.

Storage Conditions

The recommended storage temperature is 5~30 °C, humidity is 50~75%. The containers must be kept tightly closed in a dry, cool and well-ventilated place. They must be kept away from heat. Care must be taken and kept locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

Precautions

Handle in accordance with good industrial hygiene and safety practices. Keep the environment temperature within the recommended temperature range during the printing process, otherwise fluency problems probably happen. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing, and avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. For further information on safety, storage and environmental aspects concerning these products, please refer to Safety Data Sheet. Additional Technical information can be obtained from our product safety department.

Imported & Marketed By:

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