FARBAJET-GL

High performance UV-LED-curable Inkjet ink designed exclusively for a wide range of flexible and rigid substrates.

Fields of application

Farbajet-FR is a high-performance UV-LED curable versatile ink designed for various flexible and rigid substrates such as:

- Acrylics (PMMA)
- Rigid PVC and PVC foam board
- Aluminium composite panels (Dibond®)
- Pretreated PP (e.g. corrugated plastic)
- Polycarbonate, Polystyrene, ABS
- Wood and MDF boards
- Corrugated board, cardboard & Re-Board®

To achieve optimal ink adhesion, the surface tension of PE/PP substrates should be at least 44 mN/m. If the surface tension falls below 44 mN/m, we strongly recommend applying a pre-treatment using suitable methods such as Corona, Plasma, or flame treatment. Additionally, it is crucial to ensure that the substrate is clean and free of contaminants, including fingerprints, before printing.

Compatible printer heads

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

- Ricoh Gen 4, Gen 5 and Gen 6
- Konica Minolta 512 and 1024
- Xaar 1001

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

Ink Set and Auxiliaries

Farbajet-GL ink offers a wide colour gamut. The ink set consists of Yellow, Magenta, Light Magenta, Cyan, Light 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.

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

Basic Shades and Auxiliaries

BASIC COLORS	SHADES	COLORS	CODE
YELLOW	Standard		FJT (GL)-JET UV-LED 203
MAGENTA	Standard		FJT (GL)-JET UV-LED 302
	Light		FJT (GL)-JET UV-LED 302L
CYAN	Standard		FJT (GL)-JET UV-LED 506
	Light		FJT (GL)-JET UV-LED 506L
BLACK	Standard		FJT (GL)-JET UV-LED 900
WHITE	Standard		FJT (GL)-JET UV-LED 100
AUXILLIARIES			
UV-LED 001V		Varnish	Protective Coating
RFR 240		Cleaner	Weekly cleaner
RFR 243		Cleaner	Monthly cleaner
APT 246		Primer	Pre-coat

Characteristics

Pre-treatment

It may be advisable to remove dust and other impurities off the substrate surface prior to printing by means of APT 246 primer. This will help in enhancing the adhesion properties of the ink.

FARBAJET-GL

Drying

Farbajet-GL 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 inkjetable varnish UV-LED 001V. 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-GL series consists of pigments with high fade resistance. The Farbajet-GL 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.

Color	Blue Wool Scale
FJT (GL)-JET UV-LED 203	8
FJT (GL)-JET UV-LED 302	7-8
FJT (GL)-JET UV-LED 506	7-8
FJT (GL)-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 15 - 25 °C is:

- 1 year for 203, 302, 302L, 506, 506L, 900, 001
- 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 two cleaners i.e., RFR 240 for flushing and RFR 243 for maintenance cleaning. These cleaners have been chemically adjusted to the ink. It is recommended that before changing over to Farbajet-GL inks all the ink carrying components must be drained and rinsed with cleaner RFR 240. RFR 243 can be used for cleaning print heads and other ink-carrying components. It can also be used if any part needs to be soaked for a while. This cleaner has been chemically adjusted to the ink. Due to its higher viscosity, it is suitable for printers with automatic cleaning units as well.

Storage Conditions

The recommended storage temperature is 15~25 °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:
SPINKS INDIA,
Plot No 135, Pace city I, Sector 37,
Gurugram, Haryana- 122001(India).

TDS_FARBAJET-GL_EN_20250118