

Technical Data Sheet



Ultra Jet DLE-A

Versatile UV-LED-curable inkjet ink for a wide range of flexible and rigid substrates compatible with various print heads commonly employed on UV printers.



Key features

- Excellent adhesion to many substrates, even difficult ones
- High-quality pigmentation
- Available in 1 l bottles
- Low odor
- Manufactured without the use of NVC

Field of application

Substrates

The Ultra Jet DLE-A substrate range includes:

Flexible substrates:

- PVC banner material
- Self-adhesive films up to 200 µm
- PE/PET/PC/PVC films up to 200 µm
- Printable fabrics such as Trevira®
- Artificial leather

Rigid substrates:

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

On challenging substrates such as glass or metals (coated, anodized, or powder-coated surfaces), adhesion can be significantly improved by applying a preliminary coating. Excellent results have been achieved with:

Roller Coating: Mara® Shield UV-PGL Primer for glass

Screen Printing: Ultra Graph UVAR

Outstanding adhesion was achieved on "DIBOND® Digital" produced by ALCAN (3A Composites Holding AG).

Since substrates can vary in printability even within the same type, preliminary tests for the intended application are indispensable.

Compatible print heads

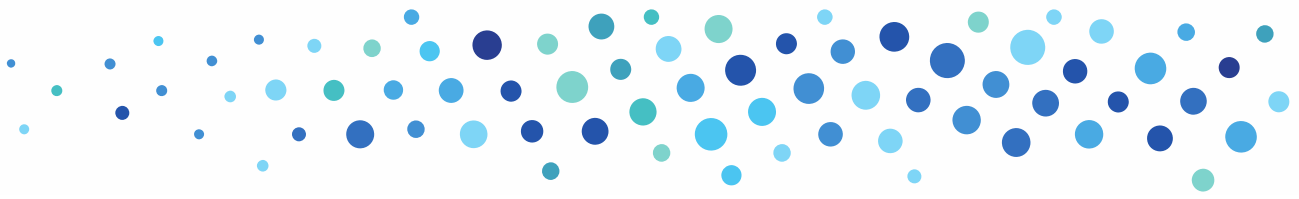
Ultra Jet DLE-A is suited for devices employing the below mentioned print heads:

- Ricoh Gen3 and Gen4
- Konica Minolta 512 and 1024
- Dimatix Q-Class
- Xaar 1001

Ink properties

Curing

UV-LED-curable ink with excellent reactivity at a wavelength of 395 nm. Maximum adhesion and chemical resistance are achieved after 24 hours.



The curing process depends on several factors:

- Design of the UV/LED dryer (e. g. reflectors)
- Number, age, and performance of the LED lamps
- Processing speed of the curing unit
- Substrate and its distance from the LED lamps
- Color shade and ink deposit

Fade resistance

Pigments of high fade resistance are used which enable a 2-year vertical outdoor exposure, referred to the middle European climate and suitable substrates.

Range

Basic Shades

- 428 Yellow
- 434 Light Magenta
- 438 Magenta
- 455 Light Cyan
- 459 Cyan
- 489 Black

Further Products

- 170 White
- 910 Varnish
- 912 Varnish

Auxiliaries

- DI-UR Cleaner
- DI-UR 3 Cleaner
- P 2 Primer

DI-UR / DI-UR 3: are used for rinsing/cleaning or short-term soaking of printheads and other ink-carrying components (e. g. after extended machine downtime) and are chemically adjusted to the ink formulation.

Thanks to its higher viscosity, DI-UR 3 is especially suited for printers with automatic cleaning units.

P 2: designed for manual precleaning and pretreatment of polypropylene and metals. Improves adhesion on powder-coated surfaces.

Shelf Life

The shelf life for an unopened ink container if stored in a dark room at a temperature of 15-25 °C is:

- 9 months for the color shade 170
- 1 year for all other inks

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 will be reduced. In such cases, the warranty given by Marabu expires.

Change-Over

Switch & Swap / flushing required:

Before switching to DLE-A, fully drain the ink system and flush all ink-carrying components with DI-UR cleaner.

Recommendation

For smooth production, always follow the guidelines provided by Marabu and the machine manufacturer. We recommend replacing ink filters annually and performing regular maintenance and service intervals.

Labeling

For Ultra Jet DLE-A and its auxiliaries, there are current Material Safety Data Sheets available according to EC regulation 1907/2006, informing in detail about all relevant safety data including labeling according to EC regulation 1272/2008 (CLP regulation). Such health and safety data may also be derived from the respective label.

Safety rules for UV-LED inks

UV-LED inks contain substances which may irritate the skin. Therefore, take utmost care when working with UV-LED-curable printing inks. Contaminated skin areas must be cleaned immediately with water and soap. Please follow the instructions on the labels and in the safety data sheets.





Note

All statements made here refer exclusively to standard color shades. For custom inks, the described features may deviate. For comprehensive legal information regarding the use of our products, please refer to our General Terms and Conditions (GTC) at www.marabu.com.

In the event of any queries, please contact:

Technical Hotline

Phone: +49 7141 691140

technical.hotline@marabu.com

Marabu GmbH & Co. KG | www.marabu.com

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