

Technical Data Sheet



Ultra Jet DLE-LH

UV-LED-curable inkjet ink, as an alternative to Mimaki LH-100 ink.



Key features

- Excellent adhesion to many substrates, even difficult ones
- High-quality pigmentation
- Low odor
- Manufactured without the use of TPO
- Available in 1 l bottles and 600 ml bags
- Including LH-100 chips

Field of application

Substrates

The Ultra Jet DLE-LH substrate range includes:

Rigid substrates:

- Acrylic (PMMA)
- Rigid PVC and PVC rigid foam sheets
- Aluminum composite panels (e. g. Dibond®)
- Pre-treated PP hollow chamber materials
- Polycarbonate films, polystyrene, ABS
- Coated metal
- Wood and MDF panels
- Corrugated cardboard, cardboard boxes & Re-Board®

Flexible substrates:

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

Compatible print heads

Ultra Jet DLE-LH is suitable for the following print heads:

- Ricoh Gen 3
- Ricoh Gen 4
- Ricoh Gen 5
- Toshiba Tec CA4
- Konica Minolta 512 + 1024 + iSeries
- 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 dryer
- Number, age, and performance of lamps
- Belt speed of the curing unit
- Substrate
- Color shade and ink deposit

Lightfastness

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

- 170 White
- 428 Yellow
- 438 Magenta
- 459 Cyan
- 489 Black
- 910 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 Ultra Jet DLE-LH fully drain the ink system and flush all ink-carrying components with DI-UR cleaner.

Please note: When switching from a third-party supplier, an additional cleaning step should be carried out using the third-party supplier's cleaner, followed by cleaning with DI-UR. Replacing the filters (dampers)

is generally recommended, as well as checking whether any further spare parts need to be replaced.

Switch & Match / Profiling necessary for maximum color accuracy.

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-LH 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:

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