

Technical Data Sheet



Ultra Jet DLE-JX

Ultra Jet DLE-JX is a LED-curable ink, which is specially developed as alternative for LUS120 and MIMAKI printers



Key features

- Chemical compatible
- LUS120 alternative
- Suitable for LED lamps
- High-grade pigmentation
- NVC free
- Including LUS120 chips

Field of application

Substrates

The Ultra Jet DLE-JX substrate range includes:

- Rigid materials like acrylics (PMMA)
- Rigid PVC
- Aluminium composite panels (like Dibond®)
- Polycarbonate
- Flexible substrates like self-adhesive films, or PVC banner material, Backlit, PC foils,

Field of use

Ultra Jet DLE-JX is suitable for the following Printers:

- Mimaki JFX Serie
- Mimaki UJF Serie
- Mimaki SIJ320UV
- Mimaki UJV55

Ink properties

Characteristics	DLE-JX
Colour Gamut	+++
Flexibility	+++
Pigmentation	+++

Curing

Ultra Jet DLE-JX is a LED-curable ink. Best curing is achieved at a wavelength of 395 nm.

Ultra Jet DLE-JX is a post-curing UV ink which achieves its final adhesion and resistances after 24 hours.

The curing speed of the ink depends on the number of LED-lamps, the age and power, as well as on the printed ink film thickness. Furthermore, the curing speed is influenced by the colour shade, the printing speed and the substrate.

Fade resistance

Only pigments of high fade resistance are used for the **Ultra Jet DLE-JX** range. All basic shades are suited for at least 2-year vertical outdoor exposure, referred to the middle European climate and suitable substrates.

Colour Range

Basic Shades

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

Auxiliaries

DI-UR Cleaner

DI-UR 3 Cleaner

P 2 Primer

For the ink changeover, it is recommended to use DI-UR for all ink-carrying components of the ink system. This cleaner has been chemically adjusted to the ink.

DI-UR 3 can be used for cleaning print heads and other ink-carrying components and should be used if any parts need to be soaked for a while. This cleaner has been chemically adjusted to the ink. Thanks to its higher viscosity, it is especially developed for printers with automatic cleaning units.

Special Primer P 2 is used for manual precleaning and pretreatment of PP substrates and metals. In addition, improved adhesion properties can be obtained on powder coatings.

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 all shades

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

Before changing over to Ultra Jet DLE-JX it is generally recommended to completely drain the ink system before rinsing all ink-carrying components with cleaner DI-UR.



Depending on the current ink type and your colour match requirements there are three different options for a changeover:

- Switch & Print = full chemical and colour compatibility
- Switch & Swap = Flushing is required
- Switch & Match = Colour profiling is required for the best colour match

Please contact Marabu to confirm the necessary process for your printer.



Note

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their purpose. This is not meant as an assurance for certain properties of the products nor their suitability for each application.

Therefore, you are obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The foregoing information is based on our experience and should not be used for specification purposes. All characteristics described in this Technical Data Sheet refer exclusively to the standard products listed under "Range", provided that they are processed in accordance with their intended use and only when used with the recommended auxiliaries. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, they shall be limited to the value of the goods delivered by us and utilised by you with respect to any and all damages not caused intentionally or by gross negligence.

Recommendation

For smooth production, the instructions of Marabu and those of the machine manufacturer must be observed and adhered to. We recommend replacing the ink filters annually and carrying out regular care and maintenance intervals.

Labeling

For **Ultra Jet DLE-JX** 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 labelling 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 printing inks

UV-inks contain some substances which may irritate the skin. Therefore, we recommend to take utmost care when working with UV-curable printing inks. Parts of the skin soiled with ink are to be cleaned immediately with water and soap. Please, read the notes on labels and on safety data sheets.

Marabu – Colors made for life

- Certification to international standards ISO 9001, 14001
- Leading-edge research and development enables us to design innovative products to meet the very latest real-world challenges of our customers
- Corporate responsibility – particularly environmental protection – is at the heart of our business. We have underlined this commitment by creating a dedicated department for product and environmental safety
- We systematically reduce hazardous substances in our products, making our standards among the highest in the industry
- Our international service and support network of subsidiaries and partners offers assistance and advice wherever you are

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