



Solvent-based Inkjet Printing Ink for PVC self-adhesive foils and PVC tarpaulin materials

Good adhesion, fast drying and high resistance against UV-light, suitable for long-term outdoor applications

Vers. 1
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Field of Application

Substrates

The Mara® Jet DI-LSES substrate range includes

- different qualities of PVC self-adhesive foils (monomeric, polymeric and cast PVC films)
- other PVC coated materials and tarpaulins
- textiles

Since all the print substrates mentioned may be different in printability even within an individual type due to variable surface tensions, preliminary trials are essential to determine the suitability for the intended use.

Field of use

Mara® Jet DI-LSES Ink Jet Printing Ink is suitable for wide format Mimaki machines operating in the ES3 ink configuration.

Other printers employing EPSON DX4, DX 5, or DX6 print heads can be tested by a Marabu technician upon request.

Characteristics

Drying

The original machine parameters don't need to be changed with the use of DI-LSES, but they may be adjusted according to the substrate quality and thickness of the ink layer.

Fade resistance

Pigments of high fade resistance have been used for Mara® Jet DI-LSES standard shades in order to ensure long-term outdoor suitability. On foils of appropriate quality, a light fastness of up to 3 years is guaranteed with reference to the central-European climate. For fleet marking applications, such as advertisements on vehi-

cles, an additional lamination or varnishing is to be carried out for mechanical protection.

Range

429	Yellow
434	Light Magenta
438	Magenta
455	Light Cyan
459	Cyan
489	Black

Auxiliaries

DI-UR 2 Cleaner

For cleaning print heads and printer parts DI-UR 2 can be used for all components of the ink system (after longer machine stops). This cleaner has been chemically adjusted to the ink.

We recommend carrying out cleaning cycles at the beginning and the end of production, and cleaning the nozzle plate once a week.

Shelf Life

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

- 1.5 years for all Color shades of this inkseries.

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. In such cases, the warranty given by Marabu expires.

Change-over

Changing from Mimaki Original Ink to Mara® *Jet* DI-LSES does not require preliminary cleaning of parts of the printer. Simply replace the cartridges.

In case of changing from a third-party supplier to Mara® *Jet* DI-LSES, it is our advice to run an additional cleaning cycle with the third-party cleaner before repeating this procedure with the Marabu cleaner DI-UR 2. It is highly recommended to exchange the dampers, and any other parts if necessary.

Note

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

You are, therefore, 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

In order to ensure a smooth production workflow, please follow the guidelines issued by the manufacturer and Marabu. We recommend to replace the dampers and cappings once a year. Compliant with the printer's manual, an "Ink Renewal" should be carried out after longer print breaks.

Labelling

For Mara® *Jet* DI-LSES 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 the present EEC regulations as to health and safety labelling requirements. Such health and safety data may also be derived from the respective label.

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