



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

Good adhesion and resistances, fast drying, and high-quality pigmentation, nickel-free yellow

Vers. 3
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Field of Application

Substrates

The Mara® Jet DI-SX substrate range includes

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

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-SX Ink Jet Printing Ink is suitable for wide format Roland machines.

Other printers employing EPSON DX6 or DX7 print heads can be tested by a Marabu technician upon request.

Just use the silver configuration provided by your printer to enhance your next prints with metallic effects.

The settling of the silver pigment is normally prevented by the automatic circulation of the printer. To make sure there is no settled material in the ink system, print a square of 100 x 30 cm at 100% density. Please carry out a cleaning cycle after long print interruptions (> 1 week).

Medium ink deposit gives the best metallic effect. Depending on the media type and quality, the two Silver Spot Colour Channels are typically used with 50-70% ink reduction.

Characteristics

Drying

The original drying parameters don't need to be changed with the use of DI-SX, but they may be adjusted according to the substrate quality and thickness of the ink layer. For preheating, print heating, and drying, we recommend a temperature range of 35 - 45°C.

Fade resistance

Pigments of high fade resistance have been used for Mara® Jet DI-SX in order to ensure long-term outdoor suitability.

On foils of appropriate quality, a light fastness of up to 2 years is guaranteed with reference to the central-European climate. For fleet marking applications, such as advertisements on vehicles, an additional lamination or varnishing is to be carried out for mechanical protection.

For the silver we only recommend lamination because liquid varnishes will destroy the silver effect.

Range

Basic Shades

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

Further Products

170	Silver
191	Silver

Auxiliaries

DI-UR 2 Cleaner

For cleaning print heads and printer parts Mara® Jet 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:

- 18 months for basic shades 429 - 489
- 12 months for 191 Silver

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 Roland Original Ink to Mara® Jet DI-SX does not require preliminary cleaning of parts of the printer. Simply replace the cartridges.

When machines in Roland EcoSolMax3 configuration (only in Europe) are converted, an ink discharge using the "Pump up" option is required before the machine can be refilled with Marajet DI-SX

In case of changing from a third-party supplier to Marajet DI-SX, 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-SX and the Cleaner DI-UR 2, Material Safety Data Sheets are 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 are current. Such health and safety data may also be derived from the respective label.

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