



**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**

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## Field of Application

### Substrates

The Mara® Jet DI-MS substrate range includes

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

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

### Field of use

Mara® Jet DI-MS is suitable for all machines that can be operated in the Mimaki™ SS21 ink configuration. The colorshades are matched for this purpose and existing color profiles of your RIP-Software can be used. For best results a profile on the dedicated substrate might be required.

We highly recommend to run machine with ink supplied from closed containers such as pouches and cartridges to ensure a print stability also at highest speeds.

Other printers employing EPSON® DX5, DX6, DX7 print heads can be tested by a Marabu technician upon request.

## Characteristics

### Drying

The drying parameters of the machine during the use of Mara® Jet DI-MS can be set as recommended below. Depending on media quality and type it could be required to adjust these parameters.

Good printing results have been achieved with preheating the media to approx. 40°C and print heating of approx. 38°C. Drying temperature of approx. 50°C ensures that the print is fully dry before winding it back up. These temperatures may be adjusted individually according to printing speed, substrate and printer configuration, especially when using silver inks.

### Fade resistance

Pigments of high fade resistance have been used for Mara® Jet DI-MS in order to ensure long-term outdoor suitability. On films of appropriate quality, a light fastness of 3 years (according to DIN EN 4892-2) is achieved with reference to the central-European climate.

The DIMS 022 Orange will achieve 1 Year of outdoor durability. For Long-term outdoor installations and fleet marking applications, like advertisements on vehicles, we recommend an additional lamination or varnishing for increased mechanical protection and light fastness.

## Range

### Basic Shades

022	Orange
428	Yellow
434	Light Magenta
438	Magenta
455	Light Cyan
459	Cyan
485	Light Black
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.

## Printing Parameters

### 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 the colors
- 1 year for 170 white

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 over a printer from Mimaki™ SS21 ink to Mara® Jet DI-MS does not require preliminary cleaning of parts of the printer. Simply replace the whole ink set at once, or change cartridge by cartridge on demand.

In case of changing from a third-party supplier to DI-MS, it is our advice to run an additional cleaning cycle with the third-party cleaner before repeating this procedure with the cleaner DI-UR 2.

It is 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, a "Fill-up" should be carried out after longer print breaks.

### Labelling

For Mara® Jet DI-MS 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.