

# Technical Data Sheet



## Ultra Jet DUV-RV

The Ultra Jet DUV-RV is a UV-curable ink developed specifically for use with EFI™ VUTEK® GS and QS series printers



### Key features

- Suitable for LED and Mercury vapour lamps
- High-grade pigmentation
- Wide adhesion range with flexibility needed
- Low print odour
- VCL free

### Field of application

#### Substrates

The Ultra Jet DUV-RV substrate range includes:

Flexible Substrates:

- PVC banner
- Self-adhesive films
- Polycarbonate foils
- Poster paper
- Backlit
- Mesh
- Printable fabrics such as Trevira® and artificial leather

### Field of use

Ultra Jet DUV-RV is suitable for the following Roll to Roll printers:

- EFI™ VUTEK® GS series e.g. GS5000r, GS3250r
- EFI™ VUTEK® QS series e.g. QS3250r
- EFI™ VUTEK® 5r+, EFI™ VUTEK® 32r+ etc

### Ink properties

| Characteristics | DUV-RV |
|-----------------|--------|
| Colour Gamut    | +++    |
| Flexibility     | +++    |
| Pigmentation    | +++    |

### Curing

Ultra Jet DUV-RV is a UV-curable ink, suitable for EFI™ VUTEK® printers with LED or mercury vapour lamps.

Ultra Jet DUV-RV is a post-curing UV ink which will achieve its final adhesion and resistances after 24 hours.

The curing speed of the ink is generally dependent upon the kind of UV-curing unit (reflectors), number, age, and power of the UV lamps, the printed ink film thickness, colour shade, substrate in use, as well as the printing speed.

## Fade resistance

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

## Colour Range

### Basic Shades

- 428 Yellow
- 439 Magenta
- 459 Cyan
- 489 Black
- 424 Light yellow
- 434 Light Magenta
- 455 Light Cyan
- 485 Light Black
- 170 White

Available in 5L container – (EFI™ VUTEK® compatible)

Since no white is available in the Ultra Jet DUV-RV product range it is recommended that Ultra Jet DUV-HV 170 White is used in combination.

## Auxiliaries

### DI-UR Cleaner

### DI-UR 3Cleaner

### EFI Adapter

DI-UR is used for cleaning all ink-bearing components during colour change and its effect is optimally adapted to the colour formulation.

DI-UR 3 is recommended for rinsing, cleaning or short-term soaking of print heads and other ink-bearing components.

The effect of the cleaner is optimally adapted to the ink formulation.

## 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 170
- 1 year for all other standard products

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

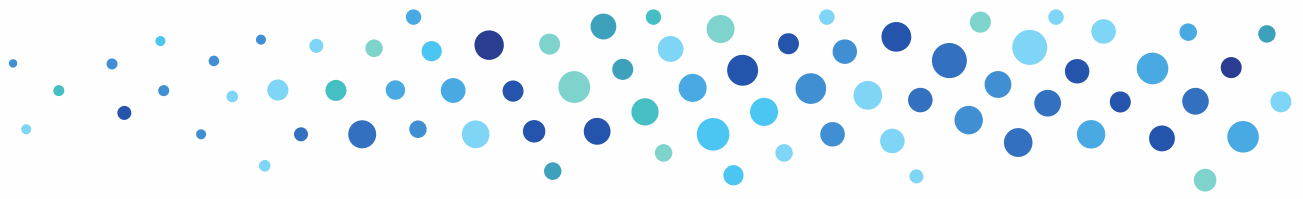
The **Ultra Jet DUV-RV** series has been designed to be optimised for the EFI™ VUTEK® GS and QS series machines.



Depending on the current ink type and your colour match requirements there are 3 different options for 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 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.

## Labeling

For **Ultra Jet DUV-RV** 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 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 safety data sheets.

## Marabu – Inks made for life

- Certification to international standards ISO 9001, 14001 & OHSAS 18001
- 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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