

# Ultra Jet DUV-GR



**Versatile, UV-curable Inkjet printing ink for a wide range of flexible and rigid substrates**

**Compatible with Digital Printers of the Océ Arizona and Fuji Acuity Product Family**

Vers. 2  
2016  
23. Aug

## Field of Application

### Substrates

The Ultra Jet DUV-GR substrate range includes:

Flexible substrates:

- PVC banner material
- Self-adhesive films
- PE/PET/PC/PVC films

Rigid substrates:

- Acrylics (PMMA)
- Rigid PVC and PVC foam board
- Aluminium composite panels (Dibond®)
- Polycarbonate, Polystyrene, ABS
- Coated metal
- Glass\*
- Wood and MDF boards
- Corrugated board, cardboard & Re-Board®

\*Outstanding adhesion properties when using Marabu Primer solutions. Recommendations are available upon request.

It is important to ensure that the substrate is free of fingerprints.

Priming can significantly improve the adhesion properties on challenging substrates like glass, or metals (coated, anodized or powder coated surfaces). Very good results have been achieved with Ultra Jet DUV-GR in combination with the roller-coating primer Mara® Shield UV-PGL, Ultra Glass UVGO or Ultra Graph UVAR (screen printing).

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

Ultra Jet DUV-GR is suitable for Océ Arizona and Fuji Acuity Printers that run on:

- IJC-255 or IJC-256
- Uvijet KI or Uvijet KO

## Characteristics

### Drying

Ultra Jet DUV-GR is a UV-curable ink. Curing is achieved with medium pressure mercury lamps.

Ultra Jet DUV-GR 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 number, age, and power of the UV-lamps, the printed ink film thickness, colour shade, substrate in use, as well as the printing speed.

When printing Ultra Jet DUV-GR 170 (White) as öast layer, make sure that prints are not stacked immediately. Please avoid stacking prints with printed sides facing each other. In particular for double-side prints with White it is recommended to vertically store the prints for the first 24h to avoid blocking.

### Fade resistance

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

These values can be increased by suitable protective coating or lamination. Recommended are the Liquid Coatings of our Mara® Shield Product Family.

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## Range

### Basic Shades

428	Yellow
438	Magenta
459	Cyan
489	Black

### Further Products

170	White
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We do not recommend this ink for toys due to the foreseeable contact with the mouth since the possible presence of residual monomers and decomposition products of the photo-initiators cannot be excluded even when sufficiently cured.

## Auxiliaries

DI-UR	Cleaner
DI-UR 3	Cleaner
P 2	Primer
P 4	Primer

For the ink change-over, 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 awhile. This cleaner has been chemically adjusted to the ink. Thanks to its higher viscosity it is especially suited for printers with automatic cleaning units.

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

The adhesion properties of UV curable Inks on glass (screen printing and digital) is significantly improved by the use of Special Primer P 4. The application of this special "solvent" is possible, either by manually wiping it onto the entire surface with a cloth or using a spray gun.

## 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

When changing over from IJC-255/256 resp. Uvijet KO/KI an intermediate cleaning is not necessary. It is recommended to replace the ink filter in the course of the change-over.

In case that a third-party ink was used before, it is highly recommended to completely drain the ink system and to rinse all ink-carrying components with cleaner DI-UR.

## 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.

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.

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## Recommendation

In order to ensure a smooth production workflow, please follow the guidelines issued by the manufacturer and Marabu.

We recommend to replace the ink filter once a year and to observe regular care and maintenance intervals of the printer.

## Labelling

For Ultra Jet DUV-GR 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 safety data sheets.