

KRONES multicroma 2201 / KRONES multicroma 2201

UV-curable ink for digital decoration technology

Field of Application

The KRONES multicroma product range consists of substrates for printing glass in combination with a pretreatment and the KRONES multicroma primer for optimal adhesion.

The adhesion properties of KRONES multicroma inks on glass are significantly improved using the special primer in combination with pyrosil flame pyrolysis.

To meet the specifications of direct to container or packaging pre-treatment may also be needed for example with flame treatment including KRONES multicroma silan 2301/ Krones multicroma silan 2401. Furthermore, it is important to keep the substrate properly cleaned.

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

Field of use:

KRONES multicroma is suitable for devices employing the below mentioned print heads:

- Xaar 1002 each GS6 and GS12
- Xaar 1003 each GS6 and GS12

The use of other printheads requires a prior compatibility check.

Before changing to KRONES multicroma, it is necessary to first empty the ink from the ink system and then rinse the ink-carrying components with the KRONES multicroma Cleaner 2201 rinsing fluid. The machine functions can be used to clean the system. Please contact a specialist at Dekron for this.

Before using different print heads please, it is mandatory to perform a compatibility check.

Characteristics

Drying

The KRONES multicroma ink series contains radiation-curing inkjet inks. These are appropriate for pinning wavelengths of 385 / 395 nm and final curing with UV lamps (mercury, gallium, iron doped).

In principle, curing with UV LED lamps is possible. However, preliminary tests are necessary to determine whether the desired resistance can be achieved. To achieve the highest possible resistance for some industrial applications, it is necessary to overprint with the UV-Digital Varnish 2201. Since the ink systems are post cured, the final resistance is only achieved after 24 hours.

Fade resistance

To produce KRONES multicroma inks, pigments of high light fastness are used that are suitable for 2 years outdoor use (vertical placement, Central European climate) on suitable substrates.

KRONES multicroma 2201 / KRONES multicroma 2201

UV-curable ink for digital decoration technology

Range Basic Shades:

- KRONES multicroma C 2201
- KRONES multicroma M 2201
- KRONES multicroma Y 2201
- KRONES multicroma K 2201
- KRONES multicroma W 2201
- KRONES multicroma W 2202
- KRONES multicroma Varnish 2201

The KRONES multicroma Cleaner 2201 is used to clean all ink-carrying components during color changes and its effect is optimally adapted to the color formulation. KRONES multicroma Cleaner 2201 is recommended for rinsing, cleaning or short-term soaking of print heads and other ink-carrying components. The effect of the cleaner is optimally adapted to the ink formulation. Due to its higher viscosity, it is particularly suitable for printers with automatic cleaning.

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:
KRONES multicroma W 2201,
KRONES multicroma W 2202,
KRONES multicroma Varnish 2201
- 1 year for:
KRONES multicroma C 2201,
KRONES multicroma M 2201,
KRONES multicroma Y 2201,
KRONES multicroma K 2201

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.

Change-over

Before changing over to KRONES multicroma it is recommended to completely drain the ink system before rinsing all ink-carrying components with KRONES multicroma Cleaner 2201. This cleaner has been chemically adjusted to the ink.

The best way to do this is to use the machine-specific rinse function. Simply follow the prompts for the program or contact a specialist from Dekron

Labelling

For KRONES multicroma 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.

KRONES multicroma 2201 / KRONES multicroma 2201

UV-curable ink for digital decoration technology

Safety rules for UV printing inks

UV-inks contain some substances which may irritate the skin. Therefore, we recommend taking 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. Follow the instructions on the labels and in the safety data sheets. Additional information can be found in the brochure "UV-drying" of the German Association for Printing and Paper.

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.

Material safety data sheets

The current material safety data sheets are available for you to download from our website:

www.kic-krones.com/en/downloads.php

You are also welcome to request them by e-mail to kic@kic-krones.com.

The contents of this product information are based on our general experience and to the best of our knowledge at the time of printing. The product information should provide hints for possible applications to the technically experienced reader. However, the product information is not intended to guarantee any properties of the described product, nor the suitability of the product for individual applications. It does not release the user from testing the selected product prior to application. We recommend individual consultation and are happy to provide samples on request, if possible. These products are continuously developed. We therefore reserve the right to change all technical data of this brochure at any time without notice.