



Code N° M5021--

Series of sublimation inks for direct printing, compatible with RICOH piezo printheads.

#### DISPERSED DYES BASED DIGITAL INK

- Ideal for direct printing onto synthetic fibres (polyester)

#### EXCELLENT GENERAL FASTNESS

- High light fastness of the prints
- High duration of outdoor exposure
- High rubbing fastness (if post-treated)

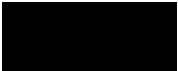



#### COMPATIBLE WITH RICOH PRINTHEADS

- Compatible with the above-mentioned piezo printheads

#### GENERAL FEATURES

- Extremely vivid and bright colors
- Excellent outlines definition
- Quick printing drying
- No "ghosting" effect during fixing
- High penetration of the ink, allowing a better two-side effect

#### PRODUCTS OF THE SERIES

				
<b>COLOUR</b>	<b>BLACK PLUS</b>	<b>CYAN</b>	<b>MAGENTA</b>	<b>YELLOW</b>
<b>CODE</b>	502111	502151	502130	502115
<b>PACKING</b>	10 Kg	10 Kg	10 Kg	10 Kg
<b>SHELF LIFE</b>	15 months	15 months	15 months	15 months

#### INSTRUCTIONS

It is recommended to let the product reach operative conditions in terms of temperature and humidity at least 24 hours prior to use, taking care of not stirring it, and apply the product under controlled conditions:

- **RECOMMENDED TEMPERATURE RANGE:** 20-25°C
- **RECOMMENDED HUMIDITY RANGE:** 40-60%

The application process of these inks requires the following steps:

1. **INKJET PRINTING**
2. **DRYING**
3. **HEAT FIXING or VAPORIZING**
4. **FINAL WASHING (optional)**

There are two different **HEAT FIXING** methods:

- **CALENDER or FLAT PRESS:** 180°-200°C during 1-2 minutes
- **VAPORIZING:** saturated vapor, 170°-175°C during 10 minutes

The **FINAL WASHING** is generally made, by following three steps:

- **PREWASHING IN COLD WATER**
- **STRIPPING** in water at 70°C with hydrosulphite and caustic soda during about 10 minutes
- **RINSING IN COLD WATER**

Often, the above-mentioned operations (except for final washing) are condensed in one single step, thanks to the use of specific plotters, which are dedicated to the textile field, and are equipped with specific fixing units in the production line.

#### PRINTING SUBSTRATES PRE-TREATMENT

In order to obtain particularly sharp images with a high details' definition, a pretreatment of the fabric is required, generally made by soaking through foulard machine.

After the application of the product, the fabric is dried at a temperature not higher than 120°C and stored in a dry place, away from direct sunlight.

The printed fabric is then fixed and subsequently undergoes the final washing (in order to improve the touch and the color fastness), consisting in a passage into cold water, a subsequent washing in a washing bath containing approximately 2 g/l hydrosulphite and 2g/l caustic soda, then a final rinsing in cold water.



### AUXILIARIES – FLUIDS FOR PLOTTER MAINTENANCE

- **DIGISTAR CAPPING FLUID (CODE 408703):** this product has moistening and anti-scaling properties, available in 250 ml container with dosing pipette for application on “capping station”.
- **DIGISTAR CLEANER NFS (CODE 408503):** detergent product for cleaning of the ink feeding circuits, ideal for industrial equipment. DIGISTAR CLEANER NFS has been specially developed to limit the foam forming.

For further information, see the related technical data sheet.

### FASTNESS

THE FASTNESS VALUES INDICATED IN THIS TABLE ARE REFERRED TO THE PRINTING OF PURE COLOURS APPLIED ONTO FABRIC

COLOUR	CODE	FASTNESS – EN ISO		
		105B02	105C10	105E04
BLACK PLUS	502111	5-6	4-5	4-5
CYAN	502151	6	4-5	4-5
MAGENTA	502130	6-7	4-5	4-5
YELLOW	502115	7	4-5	4-5

FASTNESS - EN ISO	105B02	LIGHT FASTNESS	FASTNESS RANGE
	105C10	FASTNESS TO 40°C WASHING WITH SOAP	min 1, MAX 8
	105E04	PERSPIRATION FASTNESS	min 1, MAX 5

### STORAGE

It is recommended to keep the product away from light and heat sources at a **temperature lower than 25° C**.

### SPECIAL INSTRUCTIONS

- **INK CONVERSION:** It is essential to flush (with the appropriate above-mentioned cleaners) both the line and printheads when converting/changing ink series to avoid contamination and chemical incompatibilities. This is a critical step in the process.
- The inks have been formulated so that they are consistent with printers assembled with RICOH piezo printheads. The right functioning depends not only on the printhead, but also on other elements inherent to the printer itself. To get the updated list of the consistent printers, please contact our technical assistance.
- It is recommended to always make printing, drying and transfer tests onto the substrates which are meant to be used, so as to exactly determine features, working time and effects to be obtained.
- Extreme drying conditions near the printer carriage could compromise the quality of the prints.
- Require safety data sheets, available for all products, and always follow the contained instructions regarding all the specific information and the environmental safety.

The ink performance is strictly connected to the used plotter model and printing procedure.

### IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.

While we endeavor to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.