

Code N° M5201--

Series of disperse dye inks for direct printing, compatible with KYOCERA KJ4B 300-600 dpi piezo printheads.

DISPERSE DYE DIGITAL INK

- Ideal for direct printing onto synthetic fibres (polyester)

EXCELLENT GENERAL FASTNESS

- High light fastness of the prints
- Good duration of outdoor exposure
- High rubbing fastness (after stripping)

COMPATIBLE WITH KYOCERA KJ4B 300-600 dpi PRINTHEADS

- Compatible with the above-mentioned piezo printheads

GENERAL FEATURES

- Extremely vivid and bright colours
- Extremely deep black
- Excellent outlines definition
- Quick printing drying
- No "ghosting" effect during fixing
- High penetration of the ink

PRODUCTS OF THE SERIES

COLOUR	DEEP BLACK HLF	BLACK I	CYAN	MAGENTA	YELLOW I
CODE	520112	520110	520151	520130	520117
PACKING	10 Kg	10 Kg	10 Kg	10 Kg	10 Kg
SHELF LIFE	12 months	12 months	12 months	12 months	12 months
COLOUR	VIOLET R	ORANGE I	BLUE	GREY	GREY I
CODE	520170	520136	520150	520113	520109
PACKING	10 Kg	10 Kg	10 Kg	10 Kg	10 Kg
SHELF LIFE	12 months	12 months	12 months	12 months	12 months



COLOUR	LIGHT MAGENTA	LIGHT CYAN	RED
CODE	520131	520152	520132
PACKING	10 Kg	10 Kg	10 Kg
SHELF LIFE	12 months	12 months	12 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:



- **PRETREATMENT:** fundamental for high quality and high definition printing. It can be natural or synthetic.
- **PRINT:** with inkjet printers equipped with Kyocera printheads
- **DRY HEAT or STEAM:** the in-line heat fixing, calender/ flat press or oven, is normally used for "soft signage" and "carpet". For "fashion" it is better to use vaporizing (steam) since it grants the consistency of the polyester hand.
In details the heat fixing/curing conditions are the following:
 - OVEN (THERMOSOL): dry heat into oven with forced ventilation: 170-190°C for 2-3 minutes
 - CALENDER or FLAT PRESS: 180°-200°C for 1-2 minutes
 - VAPORIZING: saturated vapor, 170°-175°C for 10 minutes (upon test of the most suitable fixing conditions)



- **STRIP & WASH:** optional for “soft signage” but fundamental for “fashion” since it grants the general fastness requested by this market. In details the suggested conditions are the following: PREWASHING, STRIPPING in water at 70°C with hydrosulphite and caustic soda for about 10 minutes, RINSING / pH ADJUSTMENT

AUXILIARIES – FLUIDS FOR PLOTTER MAINTENANCE

- **DIGISTAR CLEANER (CODE 408501):** this product is used for cleaning the ink feeding circuits.

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
DEEP BLACK HLF	520112	6	4/5	4/5
BLACK I	520110	6	4/5	4/5
CYAN	520151	7	4/5	4/5
LIGHT CYAN	520152	6	4	4
MAGENTA	520130	7	5	5
LIGHT MAGENTA	520131	6	4/5	4/5
YELLOW I	520117	7	4/5	4
VIOLET R	520170	6/7	4/5	5
RED	520132	4/5	4/5	4
ORANGE I	520136	3/4	5	4
BLUE	520150	6	4/5	4/5
GREY	520113	4	4/5	4/5
GREY I	520109	4	4/5	4/5

FASTNESS - EN ISO	FASTNESS RANGE		
	105B02	LIGHT FASTNESS	min 1, MAX 8
	105C10	FASTNESS TO 40°C WASHING WITH SOAP	min 1, MAX 5
	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.
- It is recommended to always make printing, drying, fixing and washing 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, the printing procedure, the kind of material and the applied pre-treatment.
- **The inks have been formulated to be compatible with printers equipped with KYOCERA piezoelectric printheads. The proper functioning depends not only on the printhead but also on other intrinsic factors of the printer itself. For the updated list of compatible printers, please contact our Technical Assistance.**

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.