

UV ink

UV CORE TYPE-C Series

UV CORE TYPE-C Series is the UV curable ink for energy saving UV system (LE-UV including Ozone-less UV, and LED-UV). It is expected to improve the dampening water related troubles such as roller striping, instability during beginning of print, misting, etc which are the challenges in UV printing. Therefore, it is designed not only with consideration for quality of printed materials but also for easier use.

■ Features

- Excellent curing property. Compatible with such as energy-saving UV systems, LE-UV, Ozone-less UV and LED-UV system
- Designed to be high density and it enables to achieve sharp and clear halftone dots
- Excellent ink flow and quick reaction to density-matching adjustment makes stress-free printing possible
- Adapted formula with consideration for stable color density and scumming prevention during long-run printing
- It helps to reduce the volume of dampening water which leads to less trouble in emulsification
- Applicable for commercial and package printing in general
- Comply with EuPIA Exclusion Policy for Printing Inks and Related Products
- Conform to chemical regulations such as RoHS, SVHC of REACH etc.

■ General properties

Color	Lightfastness		Heat Resistance	Soap Resistance	Solvent Resistance
	Masstone	Dilution			
P REFLEX BLUE	7~8	7	5	5	5
P WARM RED	2*	1~2*	4	1	3
P 072 BLUE	4*	3~4*	2	1	2
P RHODAMINE RED	4*	2*	2	1	2
P VIOLET	7~8	7	5	5	5
P GREEN	8	7~8	5	5	5
TRANS WHITE	8	-	5	5	5
OPAQUE WHITE	8	7	5	5	5
SLF YELLOW	6~7	5~6	5	5	5
SLF MAGENTA	6~7	5~6	5	5	5
SLF EXTRA WARM RED	6~7	5~6	5	5	5

Evaluation: Lightfastness 8(excellent)⇔ 1 (poor); Other Resistances: 5(excellent)⇔ 1 (poor)

*: Lightfastness deteriorates significantly when getting wet with water.

■ Test method

Lightfastness: Evaluate the lightfastness of printed matter by Fade-O-Meter. Classify the resistance on a scale from 1 to 8 based on the exposure time and the degree of fading. “Masstone” were tested without dilution, and “Dilution” by diluting them 10 times in a trans white.

Heat Resistance: Expose printed matter to 150 degrees (Celsius) heat in a drying oven for 10 minutes. Classify the resistance on a scale from 1 to 5 based on fading.

Soap Resistance: Applied 10% soap gel at 20~25 degrees (Celsius) to printed matter for 1 hour. Classify the resistance on a scale from 1 to 5 based on the degree of fading and bleeding in the soap gel.

Solvent Resistance: Immersed printed matter for 24 hours in a mixture of toluene and acetone in a 1:1 ratio at 20-25 degrees (Celsius). Classify the resistance on a scale from 1 to 5 based on the degree of fading and bleeding in the mixture.

■ Handling Instruction

- Do not expose to direct sunlight.
- Store in a cool dark place.
- Excessive ink film thickness deteriorates curing & adhesion.
- Surely pre-test and confirm whether UV CORE TYPE-C Series meets the required specification before running an actual job.
- Adhesion might deteriorate in case the printed matter gets wet including condensation.
- When handling, please beware of fire, keep the work area well ventilated and avoid UV rays/direct sunlight. Please wear suitable protective equipment to prevent inhalation or contacting with eyes, skin, or clothes. When you get an ink stain on the clothes, please wash out the clothes immediately and changing the clothes to avoid contact with dirt for a long time. After handling, please wash your hands and gargle well.
- In case the ink contact with eyes, please rinse it immediately with plenty of water for at least 15 minutes and seek medical attention from an ophthalmologist. In case the ink contact with skin, please wash out the clothes/shoes, wash the contacted part with soapy water and then rinse with plenty of water. If you have skin irritation or itching, please seek medical attention, and get medical care.
- Read SDS carefully before using **UV CORE TYPE-C Series**.