T&K TOKA®

Technical Information

Best Cure

UV NECO Series

UV NECO Series is Nordic Swan approved UV curable printing ink for the presses with Low Energy UV Curing systems such as H-UV and LED-UV.

We have designed this ink with the concept of being able to print with any type of UV printing press, with any type of UV irradiation device. UV NECO Series will allow you to print on all the UV printing press you have, with different types of UV irradiation devices.

Features

- Excellent curing property. Applicable for H-UV, LED-UV and UV devices with reduced number of lamps.
- Excellent rub-resistance. Applicable for various types of paper.
- Helps to reduce the volume of dampening water, which leads to less troubles to overemulsification.
- Excellent ink flow makes density-matching adjustment at the start of jobs easier.
- Nordic Swan approved (The official ecolabel of the Nordic countries).
- Good deinkability enables recycling of printed matter. Deinkability certified by INGEDE Method11 with score of 100 (maximum 100).
- In compliance with EuPIA Exclusion Policy for Printing Inks and Related Products.
- This ink is free of “health hazard” mark.
- Conform to chemical regulations such as RoHS、SVHC of REACH etc.

Handling Instruction

- Keep away from the light of fluorescent, sunshine. If ink is left on ink duct for a longtime, or in case of light bulb is so close from ink duct, it might be cured by fluorescent light. Please consider using up immediately or use non-UV fluorescent light bulb, covers on ink duct and/or UV filter on fluorescent light bulb.
- Store ink in cool and dark place (below 25℃). Avoid direct sunshine.
- Please use materials for UV printing. (such as additives, washers, plates, rollers, blankets etc.)
- Always pre-testing and confirmation of adhesion are required. Adhesion might be worse depending on a kind of substrate.
- The ink is considered not to cause any adverse effects on human body. However, in case of some people, leaving the ink on body or clothes for long time may cause rash. Wear protective gear when handling the ink, and wash hands after completing the job.
- Please read Safety Data Sheet (SDS) well before use to understand the handling and warning.

■ General Properties

	Lightfastness		Heat	Soap	Solvent
	Masstone	Dilution	Resistance	Resistance	Resistance
Process Yellow	5	3	4	5	5
Process Magenta	5*	3*	4	2	4
Process Cyan	8	7	5	5	5
Process Black	7	7	5	2	2

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

Light fastness of the marked "*" deteriorates significantly when wet with water.

<Test procedures>

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.