



AMICA SYSTEMS

Technical Data Sheet

NuviINK[®] KDAC Ink Series

A Range of Water-based Dye Inkjet Inks Developed Specifically
for Single-pass Printing with Kyocera KJ4B Printheads



NuviINK KDAC Ink Series

is a range of water-based dye inkjet inks developed specifically for single-pass printing with Kyocera KJ4B printheads.

- Designed to be used for single-pass printing with Kyocera KJ4B printheads
- Formulated to comply with standard inkjet requirements
- For porous or non-coated paper
- With certain water fastness

Order Codes

Type	Code	Spec
Cyan	IKWD000047	W-1L-C-Kyocera KJ4B
	IKWD000056	W-5L-C-Kyocera KJ4B
Magenta	IKWD000048	W-1L-M-Kyocera KJ4B
	IKWD000057	W-5L-M-Kyocera KJ4B
Yellow	IKWD000049	W-1L-Y-Kyocera KJ4B
	IKWD000058	W-5L-Y-Kyocera KJ4B
Black	IKWD000050	W-1L-K-Kyocera KJ4B
	IKWD000059	W-5L-K-Kyocera KJ4B

Field of Application

NuviINK KDAC ink series is formulated to print on porous or non-coated paper with good jetting performance and certain water fastness.

Printing Conditions

Recommended printing parameters:

Printer	AMICA Morpho printer
Printhead	Kyocera KJ4B
Optimal Temperature	30-32°C
Optimal Voltage	Nominal voltage
Drop Size	Grey scale

* The print conditions depend upon the choice of substrate, print mode, printer solution, print speed, printhead, printhead to substrate distance, etc.



Physical Properties

KDAC Color	Static Surface Tension @25°C(dynes/ cm)	Viscosity @42°C(cps)
Cyan	30-40	5-7
Magenta	30-40	5-7
Yellow	30-40	6-8
Black	30-40	6-8

Auxiliaries

NuviINK F-WAC Flushing fluid

NuviINK F-KWAC Flush is recommended to be used for cleaning printheads and other ink-carrying components. This cleaner has been chemically adjusted to be used with Kyocera KJ4B print heads.

Flush		
	IKWT000017	W-1L-F-Unlimited PH
	IKWT000018	W-5L-F-Unlimited PH

Warning: NuviINK F-WAC is for cleaning print heads and ink-carrying components only. Please do not leave flushing fluid inside the print head for extended period of time. It should be replaced by ink or NuviINK SS-KWAC storage fluid right away.

NuviINK SS-KWAC Storage fluid

NuviINK SS-KWAC shipping and storage fluid is recommended to be used to keep printhead nozzles moist and for long-term storage.

Storage fluid		
	IKSS000007	SS-1L-N/A-KYOCERA KJ4B

Change-over

* Compatibility between inks must be confirmed with AMICA before a change-over.

* Frequent change-over between types/ colors of ink is not recommended.

For ink change-over, it is recommended to use NuviINK F-WAC for printheads and all other ink-carrying components.

When converting a system to NuviINK KDAC ink series, use the appropriate flush designed for the remaining ink in the system, followed by flushing with NuviINK F-WAC to minimize contamination.

When converting a system from NuviINK KDAC ink series to another ink, use NuviINK F-WAC flush to flush the printheads and system until the lines are clear.

Shelf Life

12 months from production date when stored under recommended conditions.

Storage

Recommended storage conditions:

Temperature: 10-25°C

Relative Humidity: 50-65%

Store in a dark, dry and well-ventilated room. Avoid direct sunlight, UV light and heat.

* Storage outside of the recommended temperatures may lead to stability issues and deterioration in the performance of the ink product.

Maintenance

Printhead should be protected with capping unit when idle to avoid radiation exposure, dust, and to keep printhead moist.

Printhead and other ink-carrying components can be purged and cleaned with NuviINK F-WAC flushing fluid. Flushing and cleaning are recommended when printhead is left idle.

* When print heads are idle, make sure the heating for print head and sub-ink-tank is turned off. Ink being exposed to high temperature will have shorter shelf life and damage the print head.

In order to ensure high printing quality using NuviINK KDAC ink, please also follow the guidelines in AMICA printers' *User Manual* and/ or *Service Manual*, especially regarding to ink supply system and printhead maintenance.

Maintenance schedule

Idle Period	Maintenance	Fluid in Printhead	Fluid in Ink Channel	Fluid in Cappers
During Production	Purge and wipe every 2 hours	Ink	Ink	SS-KWAC
30 min to 3 days	Cap printheads	Ink	Ink	SS-KWAC
3 to 7 days		SS-KWAC	SS-KWAC	SS-KWAC
Above 7 days	Uninstall printheads from printer and install to original packages	SS-KWAC	SS-KWAC	SS-KWAC

Safety & Handling

Avoid exposure to skin/eyes with NuviINK KDAC ink and wear protective gloves/ protective clothing/ eye protection. Comprehensive information on the safety and handling of KDAC ink series is given in the *Safety Data Sheets*.

Remarks

Technical advices are provided based on current knowledge, information and belief through continuous test trials at the date of this publication. The information given is designed only as a guide and is not to be considered as a warranty or quality specification.

AMICA SYSTEMS only sells NuviINK series products as consumables for AMICA SYSTEMS printers and/ or printing engines. AMICA SYSTEMS does not warrant inks being used for any other purposes.



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18 Technology Dr. Suite 147, Irvine CA 92618 USA Phone: +1(949)748-1578 www.amicasystems.com