



Hilord Chemical Corporation

Hilord Dye Sublimation Ink for Seiko IP-4500 Printer

Why convert the IP-4500 to “Hilord’s” Dye Sublimation Inks?

Hilord Inks ensure:

- Consistent prints
- 360 dpi color curve gives excellent results
- Color and density consistency between different batches
- Productivity print speeds of up to 12 m2 per hour
- Four-color process black gives excellent results
- Performs well with a large variety of media

The IP-4500 large format inkjet printers are designed for medium use production environments and provide exceptional and consistent print quality print after print.

In operation, the IP-4500 dye sublimation printers exhibit no unusual operating aspects in comparison to a graphic printer.



Make your production fruitful using Hilord Inks.

Testing: Hilord controls the following parameters for every lot in order to insure a consistent product:

Physical Parameters:

- Viscosity
- Specific gravity
- Surface tension (dynamic and static)
- Particle size distribution
- Aging tests
- Filtration
- Oven and freezer tests

Print Data:

- Reflective density
- Lab colorspace

Test Prints using Recommended Media:

- Stress test prints - No maintenance.
- Various application prints - No maintenance.

Specifications:

- Transfer conditions: Standard temperature = 400°F (204°C), Standard pressure = 20 - 25 psi, Standard time = 45 seconds
- Standard Substrates: Polyester/Polysatin cloth
- Other substrates with suggested manufacturers: various cloths and fabrics (Ibena and Fischer), coated metal, glass and tiles (Hilord’s Poly-Hi coatings), carpet and other coated materials. Transfer conditions will vary per substrate.

To Sum Up: Hilord’s matched component system; color curves, inks, coating and recommended media, keep operation costs at a minimum!

First Time Installation of the New Seiko IP-4500 Dye Sublimation Inks

When converting from any other ink to the new Hilord Seiko IP-4500 Graphic Arts Inks use the following procedure:

Step #1: Remove all six bottles from the ink holders.

Step #2: This step will replace the old ink with the new black, cyan, magenta, and yellow. Create a 50-inch by 50-inch, 400% 4-color black image and rip in four-color mode.

Step #3: At this point during the first print, you will encounter an “ink out” error. If this does not occur, repeat **Step #2**. At this time, install the new Hilord Seiko IP-4500 Graphic Arts bottle into the ink holder of the appropriate color. Press firmly to ensure that the insert is secured to the ink holder. Press indicated button on the Seiko IP-4500 printer panel to reset. Allow the Seiko IP-4500 printer to replenish with the new Hilord Seiko IP-4500 Graphic Arts Inks and then continue to print.

Step #4: Do this for the remaining bottles of ink when prompted with an “ink out” error.

Step #5: Next, you need to create a new image in order to install the light cyan and light magenta. Create another 50-inch by 50-inch 4-color black image to completely remove the old ink. However, this time the file needs to be 50% cyan and 50% magenta, ripped in 6-color mode.

Step #6: Set up to run four of these images in enhanced productivity mode and insert the new bottles when you come across the “ink out” error as in **Step #3**.

Step #7: When all images are completed, perform a “Normal Maintenance” (refer to Seiko IP-4500 manual).

Step #8: Print a nozzle test pattern (refer to Seiko IP-4500 manual). Check for nozzle misfires. If there are any deviations in the nozzle print, repeat **Step #7** until satisfactory print is obtained. This should not take more than two or three repetitions.

You have now successfully installed Hilord Seiko IP-4500 Dye Sublimation Ink.

Seiko IP-4500 Printer Maintenance

Daily maintenance is not required for the Seiko IP-4500 printer. The Seiko IP-4500 printer can be set to automatically perform maintenance before starting to print.

Examine the print to see which colors, if any, require additional printing.

Satisfaction Guaranteed

This product was the result of extensive ink research and development that included testing for compatibility with printer components. It produces exceptional color quality and offers excellent ink yield and printer reliability when correctly used in imaging applications in the Carolina printer with 120 gram Sihl media. Hilord inks are guaranteed to be stable and useable products for up to one year from the date of manufacture with proper use and normal storage conditions, and can be used with absolute confidence as a replacement for the ink originally supplied by the printer manufacturer.

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If you have any questions regarding this procedure, please contact Hilord Chemical at 631-234-7373 and request to speak to the Product Manager.