



Hilord Chemical Corporation

Hilord Dye Sublimation for Océ Raster Printer

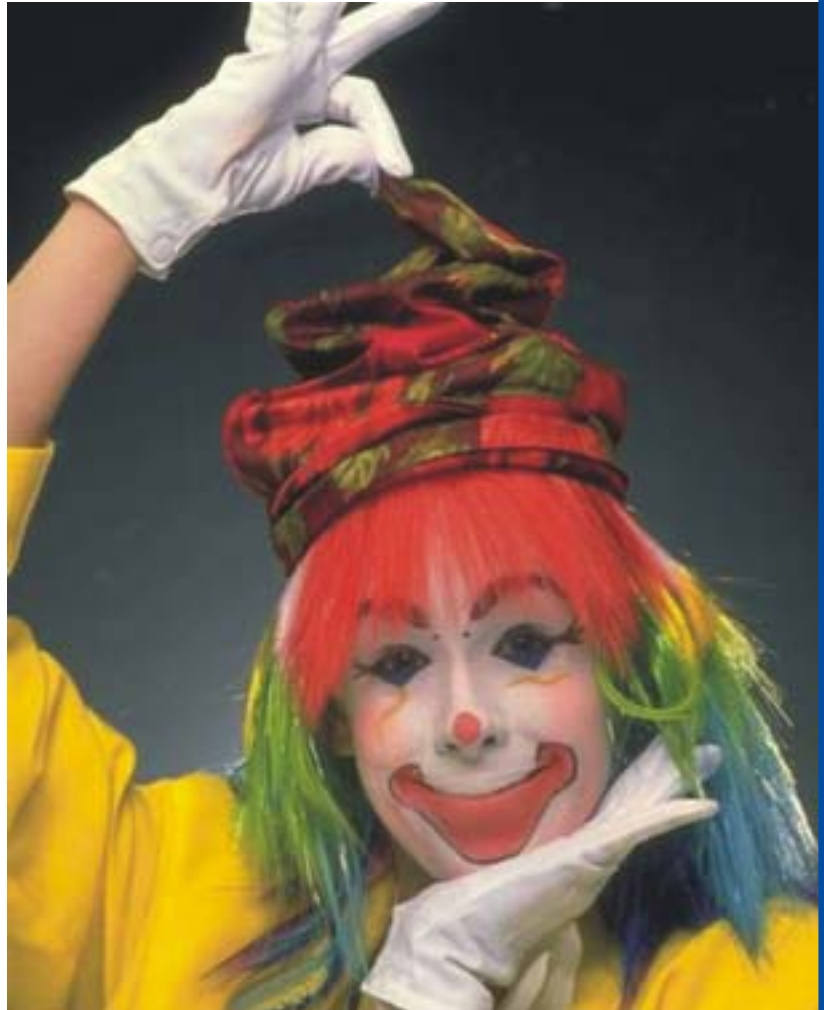
Why use “Hilord’s” Dye Sublimation Inks with the Océ Raster Printer?

Hilord Inks ensure:

- Vibrant, brilliant colors
- Excellent color gamut
- Color and density consistency between different batches
- Minimum maintenance whether the printer is in use or idle
- Competitively priced

Specifications:

- Can be used with the internal concentrate system for controlling density
- Standard Media: Sihl 80 grams
- 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 (Hilord’s Poly-Hi coatings), carpet and other coated materials
Transfer conditions will vary per substrate.



Tip your hat to products using Hilord Inks.

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

Controlling the Density by Monitoring the Dip-Cell (for Dye Sublimation)

Follow procedure "A" to obtain the initial target values, then follow procedure "B" during production. Procedure "C" should be followed every morning.

PROCEDURE A

Follow this procedure every time you use a new (fresh) toner set:

- Step #1:** Install a new (unused) set of toner into the plotter.
- Step #2:** Flush all colors and then plot to confirm that the toners print satisfactory.
- Step #3:** Insert the probe into the bottle until it rests on the bottom.
- Step #4:** Run the "Flush" cycle. Let it flush for one or two minutes and take several readings until the value is stable (while it is flushing).
- Step #5:** Record the readings for all four colors. These will be the set points "SP".
- Step #6:** Set the contrast to 0 for all colors and run a color test (color bars).
- Step #7:** Transfer and record all the densities. These will be the target reflective densities for each color "TRD"

PROCEDURE B

Follow this procedure during normal production:

- Step #1:** After a certain amount of application plots (depending on the coverage), check the conductivity reading for each color. Make sure that you take the reading during printing (while the pump is running – or during flushing) record as DC (dip-cell conductivity).
- Step #2:** If the reading "DC" is 2 points lower from the set point "SP," add concentrate slowly until the set point is achieved. If the reading is more than 10 % higher than the set point, then dilute (with clear) slowly to the set point.
- Step #3:** After adding concentrate or clear, continue printing and monitoring the "DC" (continue with *PROCEDURE B* Step #1).

PROCEDURE C

Follow this procedure every morning:

- Step #1:** Run the "Flush" cycle. Let it flush for one or two minutes and take several readings until the value is stable (while flushing).
- Step #2:** Record the readings "DC" for all four colors.
- Step #3:** Set the contrast to 0 for all colors and run a color test (color bars).
- Step #4:** Transfer and record all the densities "RD."
- Step #5:** For adjustments follow the guidelines listed below:

The following variables used are Reflective Density and Dip-Cell conductivity.

- Step #1:** DC > SP, RD > TRD : No action. *
- Step #2:** DC > SP, RD < TRD : Add clear until DC = SP **
- Step #3:** DC > SP, RD = TRD : Increase SP to DC
- Step #4:** DC < SP, RD > TRD : Decrease SP to DC. *
- Step #5:** DC < SP, RD < TRD : Update (add concentrate) until DC = SP
- Step #6:** DC < SP, RD = TRD : Decrease SP to DC
- Step #7:** DC = SP, RD > TRD : No action. *
- Step #8:** DC = SP, RD < TRD : Increase SP slowly (no more than 20% of original value) ***
- Step #9:** DC = SP, RD = TRD : No action.

KEY

DC: Dip-Cell
RD: Reflective Density
SP: Set Point for DC
TRD: Target Reflective Density

* Regarding Step 1, Step 4 and Step 7, if RD >> TRD : add clear until RD = TRD set SP to new DC

** If DC > SP, RD << TRD : Add enough clear so that DC < SP, then go to Step 5.

*** If Step 8 does not work, remove one quart of premix from the bottle and replace it with clear, go to Step 5. Repeat until RD = TRD.

Satisfaction Guaranteed:

Hilord is the OEM supplier of these inks. This printer was built around Hilord Inks

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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.