



Hilord Chemical Corporation

Hilord Dye Sublimation Toners for Xerox DS Printer

Using Hilord Toners will make your images look like originals.

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
- Ink longevity, 20 to 30 rolls of media with consistent color (when using the Hi-Con™ Concentrate Add System)

Specifications:

- Refer to the Hilord Hi-Con™ Procedure
 - Use Sihl 80 gram media
 - Faster printing 1.25 ips
 - 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.



Get out of the rain, use Hilord Toners.

Satisfaction Guaranteed: Hilord is the OEM supplier for these toners. The printers were built around Hilord toners. Our dealers supply service and parts with the best toners from Hilord.

To Sum Up: Hilord's matched component system; color curves, toners, coating and Sihl 80 gram media, keep operation costs at a minimum!

Hi-Con™ Manual Concentrate Add System

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 set of toner into the printer.
- Step #2:** Run the flush cycle 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 50 (menu 55) for all colors and run a color test (menu 94).
- 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, for high 20 Rx; for low 50 Rx of linear printing) 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).



Figure 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 50 (menu 55) for all colors and run a color test (menu 94).
- 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.

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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.