



TECHNICAL #501

BULLETIN

Laser Safe Tips

FOR BEST RESULTS ON JOBS WHICH MUST BE "LASER SAFE"

- 1) Allow a minimum drying time of 96 hours.
- 2) Printed jobs should be given every opportunity to fully oxidize before being sent through a laser printer.
- 3) Stack printed sheets in short lifts.
- 4) Winding lifts is recommended and jobs should be shipped in corrugated boxes with holes drilled in the sides to maximize air flow and oxidation.
- 5) Consult you paper manufacturer to be sure that the stock you ordered is laser compatible.

FORMS DESIGN - Minimizing the use of preprinted solid areas on forms, particularly reverse headings and logos, greatly reduces the possibility of failure. These areas can usually be screened to 50% or less using a deeper hued ink without detracting from the final result. Minimize the use of vertical lines (at 90° to the fuser roller) because they are more susceptible to ink transfer than horizontal lines (parallel to the fuser roller). Screen if possible.

Due to the many printing process variables which are beyond our control, we have developed the trouble-shooting list below. When using Soy Plus Stallion Black, please consider the following:

| Problem | Result |
|--|---|
| 1. Paper may be acidic (low pH) | Retards or prevents ink drying. |
| 2. Paper is too hard and insufficiently absorbent..... | Ink cannot penetrate. |
| 3. Paper is of low surface strength | Fibers may be deposited on the fuser roller. |
| 4. Paper is high in moisture or volatile content | Interference with the fuser roller. |
| 5. Antioxidant compounds or sprays are used..... | Retards or prevents the ink from drying. |
| 6. Non-oxidizing reducers have been added and volatiles are now present in ink film..... | Final drying is adversely affected. |
| 7. Fountain solution is too acidic..... | Retards or prevents drying. |
| 8. Ink has become over emulsified..... | Retards or prevents drying. |
| 9. Ink film carried is too heavy..... | Drying time is extended and the inks contact with the fuser roller is increased. |
| 10. Insufficient drying time has elapsed between printing and subsequent use on copier..... | Tracking problems. |

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