



TECHNICAL #140

BULLETIN

Pre-Systems Laser Safe Ink

Gans' Pre-Systems Laser Safe Inks have been formulated to withstand the high temperatures present on the fuser rollers of today's laser copiers. If correctly applied, these inks will provide trouble-free results when used to produce pre-printed forms for subsequent use on non-impact printers.

FOR BEST RESULTS - Allow a minimum drying time of 96 hours. Printed jobs should be given every opportunity to fully oxidize before being used on the copier. Winding lifts is recommended and jobs should be shipped in corrugated boxes with holes drilled in the sides to maximize air flow and oxidation.

FORMS DESIGN - Minimizing the use of pre-printed 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) as 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 troubleshooting list below. When using Pre-Systems, please consider the following:

Problem

1. Paper may have a low pH (acidic).
2. Paper is too hard and insufficiently absorbent.
3. Paper is of low surface strength.
4. Paper is high in moisture or volatile content.
5. Antioxidant compounds or sprays are used.
6. Non-oxidizing reducers have been added and volatiles are now present in ink film.
7. Fountain solution is too acidic.
8. Ink has become over emulsified.
9. Ink film carried is too heavy
10. Insufficient drying time has elapsed between printing and subsequent use on copier.

Result

1. Retards or prevents ink drying.
2. Ink can not penetrate.
3. Fibers may be deposited on the fuser roller.
4. Interference with fuser roller.
5. Retards or prevents ink drying.
6. Final drying is adversely affected.
7. Retards or prevents ink drying.
8. Retards or prevents ink drying.
9. Drying time is extended and the inks contact with the fuser roller is increased.
10. Tracking problems.

Gans' Pre-Systems Laser Safe inks are available in process colors, * Pantone® shades and color matches.

*Pantone®, Inc.'s check-standard trademark for color reproduction & color reproduction materials.

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