

**NO-TOX<sup>®</sup> SHEETFED OFFSET INKS**

FOR DUPLICATOR PRESSES WITH INTEGRATED DAMPENING UNITS

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(12/14)

Many of the small short-run duplicator type presses employ what are known as “integrated” dampening units where the fountain solution is carried to the plate by means of the ink distribution and form rollers rather than by a separate set of rollers such as those found on presses having “conventional” dampening systems.

Because of the continuous intimate contact of ink and fountain solution within the integrated units, inks are likely to emulsify more quickly and to a greater extent than with conventional units. This is particularly true when oil-based inks are used in these presses.

Since No-Tox Sheetfed Offset inks are oil-based, oxidation drying types, they too are more easily emulsified when used with integrated dampening systems. In addition, many of the pigments permitted for use by the FDA in direct food contact inks are somewhat water soluble and can “bleed” into the fountain solution of those systems. This can result in severe scumming and tinting of the printed sheet.

For this reason, color selection of No-Tox inks that can be used in these presses is limited to those colors that are highly resistant to emulsification and bleed. These are: black, “green shade” blues such as process blue, some browns, process magenta and several “earth tone” shades of tan and yellow. It is recommended that all other shades be used on presses with conventional dampening units.

Beyond these severe color limitations, duplicator press operators experienced in running conventional oil-based (non-FDA acceptable) inks on these presses should also be able to successfully run No-Tox inks since their printing, handling and drying characteristics are essentially the same. Listed below is additional information regarding their use.

- Product Type:** Modified oleo-resinous, oxidation drying type.
- Suggested Uses:** Labels, coupons, trayliners, placemats, promotions and other in-package inserts or premiums where the ink will be in direct contact with food, pharmaceutical or medical products.
- Stocks:** All types of FDA acceptable uncoated and coated papers, grease-proof stocks including WOGP and vegetable parchment, as well as some plastic stocks such as Tyvek, (DuPont, USA), Teslin, (PPG Industries Ohio Inc, PA) or Poly-Art(Bxl Plastics Limited, UK)
- Plates and Rollers:** Paper, aluminum and other types of metallic plates are suitable. All types of natural or synthetic rubber rollers are acceptable.
- Fountain Solutions:** Compatible with all types of fountain solutions normally used in integrated duplicator presses, including alcohol-modified and alcohol substitute types.
- Additives and Diluents:** Normally supplied press ready at optimum rheology for most printing conditions. High boiling hydrotreated petroleum solvents such as Magiesol 52 (Calumet Specialty Products Partners LP, USA) may be used, to reduce body or tack, if necessary.
- Wash Up:** All standard press washes and solvents are acceptable, providing rollers, plates and other press parts which contact the ink are thoroughly dried after cleaning.
- Color Availability:** Limited. Black is preferred, some blues, browns and several earth tone colors can also be provided. See above.

Note: FDA acceptability is based on the ink as supplied. Therefore, no materials should be added other than those indicated in this bulletin unless specifically recommended by Colorcon.

For more information, contact your Colorcon representative or call 1-800-724-0624  
You can also visit our website at <http://www.colorcon.com/notox>



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