

No-Tox[®] SERIES AQUEOUS OVERPRINT COATINGSNT23A
(12/09)

- Product Type:** Modified aqueous acrylic polymers
- Suggested Uses:** An FDA compliant overprint lacquer system designed to provide high gloss, excellent abrasion resistance, and superior grease resistance properties to litho printed products. These coatings can also be used to provide similar properties over solvent and aqueous flexo and gravure printed inks.
- Stocks:** All types of FDA acceptable uncoated and coated paper and board, including greaseproof stocks such as OGR and vegetable parchment, as well as treated polyolefins and many other plastic stocks.
- Printing Method:** Can be applied by any of the following methods:
- tower coaters affixed to sheetfed or web offset litho presses
 - the normal roller train of sheetfed or web offset litho presses
 - flexographic units
 - rotogravure coaters
- Application Properties:** No-Tox aqueous overprint coatings can be wet trapped over sheetfed offset litho inks, where they air dry quickly to a non-tacky, hard film. At the same time, they do not interfere with oxygen transmission through the film, thereby allowing the litho inks under them to dry at their normal rate. When wet trapped over web offset inks, excellent drying is achieved by passing the web through the drying ovens at normal web temperatures. Normal drying methods are also recommended for flexo and gravure applications.
- Diluents and Additives:** Normally supplied at higher than “press ready” viscosities to provide the flexibility of achieving optimum viscosity adjustment and control at press-side. For best film lay-down and air drying properties, a running viscosity of 30-40 seconds, #2 Zahn, is recommended for most application methods and conditions. Water is the only thinner recommended for dilution to application viscosities. For further ease of use, No-Tox aqueous overprint coatings can be supplied at “press-ready” viscosities pre-determined to meet specific processing requirements. Press stability is excellent and no additional diluents or additives are normally needed.

- End-Use Properties:*** Properly applied and dried, No-Tox Aqueous Overprints provide high gloss, excellent adhesion, and superior abrasion and grease resistance. Complete testing under actual end-use conditions is always recommended, however, whenever the application requires contact with moist, greasy or abrasive foods in order to determine suitability for the intended use.
- Equipment Cleanup:*** Rinsing with warm water is all that is required to wash plates, rollers, blankets, and other press parts, if the overprint has not yet begun to set or dry. Once it has begun to harden and cure, however, it will be necessary to use a mixture of warm water, detergent, and non-sudsy household ammonia to redissolve the films. Therefore, immediate cleanup after shutdown is recommended.
- FDA Acceptability*:*** All components used in No-Tox Aqueous Overprint Coating are sanctioned by the FDA and USDA as acceptable for direct food contact in accordance with 21 CFR, including parts 176.170, 176.180 or 175.300.
- Shelf Life:*** Minimum one year in unopened containers.

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