



DYNACOLOR™ DATA SHEET

GLOW-IN-THE-DARK UV OFFSET INK

DESCRIPTION

DYNACOLOR™ Glow-in-the-dark Offset inks have a faint, cream color when they are printed. The pigments are charged by a broad spectrum of wavelengths from 200-450 nm but ideally with UV light. The charge time varies between **5 and 30 minutes** depending on light intensity. After the ink is fully charged the afterglow will last up to **8 hours**. Because the pigments have such a high specific gravity the ink must be **stirred well** to ensure uniform pigment distribution.

TYPICAL PROPERTIES

	<u>UV Wet Offset</u>
Viscosity (at 25° C)	300-500 poise
Tack (Initial) at 1,200 rpm/1 min.	10.0-12.0 g*m
Percent Solids (Approx.)	>99%
Percent Volatiles (Approx.)	0%
Food Contact Compliance Status	N/D
Recommended Substrates	Paper, Film
Yield Range (Approx.)	100,000-200,000 in ² /lb. (depending on film thickness)

SPECIAL CARE & USE INSTRUCTIONS

DYNACOLOR™ UV Offset ink is simple to use, but it is a little different from other Offset inks. The differences between our ink and regular UV Offset inks are outlined below. The instructions below should be followed carefully to achieve optimal results. One of the main objectives in this process is to increase the coating weight. Glow-in-the-dark ink has a larger particle size than regular inks. The way to achieve the brightest glow is to get the highest coating weight possible. If you have your own techniques for increasing coating weight, feel free to try them as well.

- Consult Technical Notes for instructions for use.
- Run Speed: **DYNACOLOR™** ink has been run at 1,400 feet per minute for several hours at a time without serious press problems. On certain presses, one may need to stop the press every hour or so to clean the blanket due to piling.
- Carbonless Paper: The ink can be printed on either side of the CB sheet, or on the uncoated side of the CF. In the case of multi-ply, the ink can be printed on the CFB side. In other words, the ink is incompatible with the CF side of CF paper.

STORAGE AND HANDLING

The inks have excellent stability when stored away from heat. The material is combustible and should not be used near open flame. Store below 90° F. Should be used within twelve months of purchase. Storage longer than twelve months is not recommended. Consult product MSDS prior to use.

SENSITIVITY

Glow-in-the-dark materials are fairly stable. However, there are a few considerations that are worth mentioning.

LIGHT: The light fastness of these materials is excellent. This makes the inks suitable for a variety of outdoor applications.

CHEMICALS: Glow-in-the-dark materials are sensitive to water and acid exposure. However, once the ink has been printed and cured/dried, the resins and vehicles provide excellent protection.

CONCLUSION: In short, this ink has good stability and can be used for many applications that were previously not possible.

For further information or assistance, please contact Chromatic Technologies, Inc. at (888) 294-4CTI.

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