

Cold reveal labels, body-heat activated labels and stickers and security applications are a few of the many possibilities available using CTI's Flexographic ink. If you don't see the special-effect you are looking for, give us a call anyway to see if we can create what you need.

THERMOCHROMIC INK:

These inks reversibly change color as their temperature changes. Our thermochromic inks all work the same way: below the activation temperature they are colored and above the activation temperature they are clear or lightly colored. As the ink cools, the original color returns.

Ink Formulations Offered:

- Water Based • Solvent Based • UV Cure

Our thermochromic inks can be modified to change at a variety of different temperatures.

- *Low Temperature Ink:* Used where a product is chilled and special messaging is wanted. [Examples: Beverage labels and ice-cream packaging.](#)
- *Body Temperature Ink:* Designed to show color at normal room temperature and to disappear or change color when warmed up. This can be done by rubbing a finger or breathing warm air on the application. [Examples: Stickers, labels and receipt tape.](#)
- *High Temperature Ink:* This formulation disappears or changes color when heated up. [Examples: Great safety feature on labels for microwaveable products and hot beverages.](#)

Standard Temperatures: 8°C, 12°C, 15°C, 31°C (body-heat activated), and 45°C

Custom Temperatures (upon request): between -5°C and 65°C

PHOTOCHROMIC INK:

Another CTI breakthrough is photochromic inks, or sunlight inks, for packaging. These inks change from clear to the selected color (multiple colors are available). The ink changes quickly when exposed to sunlight and then changes back to original clear when removed from sunlight (within a few minutes). The process repeats itself.

Ink Formulations Offered:

- Water Based • Solvent Based • UV Cure



room temp

chilled



room temp

warmed



room temp

heated



indoors

in sunlight

GLOW-IN-THE-DARK INK:

CTI has a UV cure Flexographic Glow-in-the-Dark (GID) ink. We have taken the traditional GID ink to the next level by developing it for use in Flexographic printing. There are many safety and promotional applications for these inks. By using high speed printing methods you can add this very popular special effect at a low incremental cost. CTI UV Flexo inks have also been used as a spot UV coating on the back side of offset presses where a spot UV Curable coating can be applied. This is traditionally done with a raised plate and an anilox and gives a very strong glow. Speak with CTI directly for more information on this process. For best results it is recommended that you print on a white or light background.

Ink Formulations Offered:

- UV Cure
- Solvent Based

FLUORESCING SECURITY INK:

With digital printing so available and relatively inexpensive, criminals have powerful tools to create fraudulent and counterfeit documents and other materials. CTI Fluorescing Security Inks can be a part of a multi-layer approach to identifying counterfeit products. Covert or overt, these inks only fluoresce under specific UV wavelengths. And because of CTI's careful vetting of new customers, only qualified printers have access to these products. [Examples: Seals, tapes, labels, and lottery tickets.](#)

Ink Formulations Offered:

- UV Cure



in the light



in the dark



natural light



UV light