

Case Study

Application: Inkjet Printing on Bottle Caps



SACMI Colora Cap Inkjet Printer



Phoseon FireLine™



Phoseon FireEdge™ FE300

- Proven Reliability
- Superior Performance
- Innovative Technology

SACMI cap printing & decorating systems with LED curing by Phoseon

SACMI integrates Phoseon's UV LED curing technology for their Colora Cap, a new system created by SACMI for digital cap printing. SACMI adopted LED technology for instant on/off capability, perfect depth cure for double white and CMYK, and consistent cure for food related bottle caps - delivering a safe and reliable end product.

About the Colora Cap Printer

The Colora Cap printer is an on-cap digital printing system that allows high-definition images to be printed directly on the production line without having to store the caps. The user can also effect real-time decoration changeovers simply by switching to a different graphics file: a major competitive advantage for manufacturers, then, in terms of both output flexibility - the machine can carry out any type of on-cap decoration (e.g. promo campaigns, events, prizes etc.) - and stock management, allowing high-

definition images to be printed on caps in just a few minutes, even on small production runs.

Low Migration Process

The Colora Cap printer is also certified low migration for use with CMYK low migration inks. The term Low-Migration describes a process for UV-cured packaging to ensure all materials utilized do not transfer through the package in quantities that would affect the final product safety, odor, or taste. To meet LM requirements, Good Manufacturing Practices (GMP) must be used to ensure consistent, stable process control.

UV LED offers excellent through cure due to the long UV-A wavelength, which penetrates through to the media.

LED Light Sources

LED technology offers maximum UV output with significantly less

energy consumption, along with cooler operating temperatures that allow for printing on heat sensitive substrates. Light sources are integrated into printing machines, for a variety of applications, including the Colora Cap printer. The Phoseon FireLine™ is a full cure, water-cooled UV LED curing light source. The FireEdge™ is designed as a simple, innovative and cost effective, small form factor air-cooled UV LED curing lamp for pinning and curing of inks, coatings and adhesives.

About SACMI

SACMI is an international group manufacturing machines and complete plants for the Ceramics, Packaging (including Beverage and Closures&Containers), Food industries and Automation - markets in which it is a recognized worldwide leader.

For more information visit:
<http://www.sacmi.com/>