EkoCure F ™

A DUAL CURE UV LED AND UV MERCURY FLEXO INK WITH HIGH PERFORMANCE AND EXCELLENT

EkoCure™ Ink System

can be used in all UV flexographic print units provided the ink is cured with UV LED lamps or conventional UV Hg lamps. EkoCure F ™ can be used with doctor blade as well as in a chambered doctor blade system.

For a wide variety of applications

- Self-adhesive labels (coated & uncoated papers, BOPP, PE, PLA and other synthetic films)
- Cartons (carton boards)
- Tags
- Shrink lables

PROPERTIES	BENEFITS
• Cures with UV LED lamp technology	• ower energy costs; low maintenance and lamp replacement; no ozone and no mercury waste; low heat process enables capability to run heat sensitive films
• High colour strength and excellent mileage	• Improved print results
• Good press stability	• Consistent high print quality
• High printing speed	• Improved productivity
• Easy maintenance and clean up	• Faster press change overs, higher productivity
• Based on sustainable / renewable raw materials	• Environmentally friendly, sustainable; Compliant with stringent end-user demands for sustainability compliance
• Excellent adhesion to a variety of substrates	• Robust ink for many applications
• Good rheology	• Easy to handle, good ink duct behavior

EkoCure F ™

Availability

- Full range of Pantone® basic colours
- 4 colour process set

EkoCure F	
Printing speed	up to 90m/min
Anilox Volume*	
Line & Solids Printing	4 - 6 cm^3/m^2
Process Printing	2,3 - 3 cm^3/m^2

* Refer to technical data sheet for more information.

EkoCure™ UV LED Technology Delivers Economical and Ecological Benefits

UV LED means what? UV LED means **U**ltra**V**iolet **L**ight **E**mitting **D**iode.
So…what is UV LED lamp technology and how does this relate to printing inks? UV LED curing is an alternative way to cure UV inks versus the traditional mercury based lamps on all UV presses today.

THE FACTS…	THE BENEFITS…
• UV LED lamps pull significantly less energy	• Estimated 40% reduction of energy costs & lower operating costs
• Large ventilation systems are eliminated and the UV LED curing unit & power supply are smaller and more compact	• Manufacturing space is reduced and energy is saved
• UV LED lamps produce less heat	• Lower heat emission - lights do not need to warm up or cool down; offers ability to run heat sensitive films on a press with little heat management
• UV LED lamps are ozone and mercury free	• Safe working conditions and improved air quality
• UV LED lamps have approximately a 20,000 hour life, compared to 2,000 hour life of a standard bulb	• Printers can save time and money not replacing standard mercury vapor bulbs
• UV LED offers consistent UV output	• Bulbs do not fade out - affecting cure speed and productivity and assuredness of quality!
• UV LED lamps are very low maintenance	• No need to clean reflectors and no bulb replacement - increasing press UPTIME

EkoCure™ is developed using specially selected raw materials that match the narrow and targeted wavelength area that is typical for UV LED lamp output. The main advantages with UV LED can be summarized as economical and ecological:

- **Economical benefits** – energy consumption will be significantly reduced; quality assuredness brings increased productivity and press up-time; manufacturing space is increased; UV LED lamps are nearly maintenance free; no mercury bulb replace-ment and disposal costs; expanded capability to run heat sensitive materials with less heat management costs.
- **Ecological benefits** – energy will be saved; UV LED lamps are ozone and mercury free (improved worker and environmental safety).

Flint Group has partnered with Phoseon Technology UV LED lamps, and have tested inks at production speeds using the Fire-Power™ 16 W/cm2 lamps emitting output wavelength at 395 nm on a Mark Andy 4150 press in our Center for Technical Excellence in Plymouth, Minnesota.
With this innovative technology Flint Group is offering a solution that will improve the impact the printing industry has on the environment and also providing a cost saving benefit. Flint Group continues to show its position as a **Product Leader!**

**For more details on EkoCure F ™ Ink System,
call your nearest Flint Group Narrow Web office or dealer.**

Flint Group Narrow Web
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