

XCURA

Base colour ink series for Low Energy and LED Drying systems in sheetfed offset and web offset

UV base colour ink series for sheetfed offset and web offset

Product Features

- XCURA is a highly reactive UV base colour ink series for sheetfed and web offset presses that cures with low energy lamp technology and LED technology. It is suitable for commercial and non-food packaging application on paper, board and non-absorbent substrates. The series consists of 10 base colour inks as well as black, transparent white and opaque white.
- The new technology comprises either traditional UV lamps doped with iron-halides or light emitting diodes (LEDs). These have a spectral output with higher wavelengths than traditional UV lamps, which eliminates the production of ozone and reduces heat generation.
- LEDs are more compact with no ozone created – eliminating need for exhaust. They feature longer life and consistent UV output over operating life. No IR radiation and minimal heat transfer.
- XCURA is developed using specially selected raw materials that match the higher wavelength output of these low energy and LED systems.
- The main advantages of the new technology can be summarised as economical and ecological:
 - Economical benefits – energy consumption will be significantly reduced; quality assuredness brings increased productivity and press uptime; reduced work-in-progress, expanded capability to run heat sensitive materials with less heat management costs.
 - Ecological benefits – energy will be saved; UV low energy lamps do not produce ozone (improved worker and environmental safety).

Advantages of XCURA

- Fast work turnaround.
- High colour strength.
- Excellent ink-water stability.
- Fast curing speed.
- Reduced energy consumption.
- Suitable for a wide range of substrates.

		Fastness properties				
		Light fastness	Alcohol	Solvent mixture	Alkali	Soap
XCURA	Article code					
XCURA Base Medium Yellow	VW27-1LES	5	+	+	+	+
XCURA Base Orange	VW27-2LES	5	+	+	+	+
XCURA Base Rubine Red	VW27-3LES	5	+	+	-	-
XCURA Base Y/S Red*	VW27-3L1S	5	+	-	+	+
XCURA Base Rhodamine Red*	VW27-3LGS	4	-	-	-	-
XCURA Base Fast Rhodamine Red	VW27-3LRS	7	+	+	+	+
XCURA Base Warm Red*	VW27-3LLS	3	+	-	-	-
XCURA Base Fast Warm Red	VW27-3LWS	3/4	+	+	+	-
XCURA Base Purple*	VW27-4LLS	3	-	-	-	-
XCURA Base Violet*	VW27-4LWS	3	-	-	-	-
XCURA Base Fast Violet	VW27-4LES	7	+	+	+	+
XCURA Base Cyan	VW27-5LES	8	+	+	+	+
XCURA Base Reflex Blue*	VW27-5LRS	4	-	-	+	-
XCURA Base Victoria Blue*	VW27-5LWS	4	-	-	-	-
XCURA Base Green	VW27-6LES	8	+	+	+	+
XCURA Base Blending Black	VW37-9LLS	8	-	-	+	+
XCURA Base Transparent White	VW27-0LES					
XCURA Base Opaque White	VW27-0LWS					

* These XCURA Bases are not resistant to UV varnishing.

Light fastness properties according to ISO 12040:
from 1 (low) to 8 (high)

Fastness properties according to ISO 2836:
+ = Resistance provided
- = Resistance not provided

You are welcome to contact us for further information.

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XCURA

Drying properties

Low energy and LED.

Substrates

Ideally suited for coated and uncoated paper and board and non-absorbent substrates.

Additives

Gel Reducer (VW80-00GI), Liquid Reducer (VW80-043I).

Hints for the mixing of spot colours

Thanks to their high colour strength and mono-pigmentation, XCURA base colour inks feature very easy formulation and mixing of spot colours; also true when specific resistance requirements are specified. Furthermore it is possible to achieve all colour shades of the PANTONE® range with the typical film weight usually applied in wet offset printing. Therefore formulations for coated papers must be chosen.

Remarks

XCURA inks are suitable for printing with or without alcohol.

XCURA inks have been formulated to exclude materials known to cause swelling or degradation of EPDM and NBR type rollers and blankets. In general, UV curable inks and the special cleaning fluids can, to a certain extent, cause swelling or shrinking of rubbers. Rubber types like EPDM, butyl nitrile or vinyl nitrile are recommended.

Shelf life and storage

The recommended storage temperature is 5 - 35 ° C.

Direct sunlight as well as long-term exposure to fluorescent lamps should be avoided to prevent polymerisation. Meeting the recommended storage conditions, XCURA will remain stable for a minimum of 18 months from the date of manufacture.

Exceptions

Not for use for food packages without functional barrier.

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