



UltraCURA[®] Sens Bases

Next generation UV Low Migration Base series for food packaging printing.
Sheetfed and web offset applications for paper, board and non - absorbent substrates

Energy curing base colour ink series for sheetfed offset and web offset

Product Features

- UltraCURA[®] Sens Bases form a series of next generation low-odour, low-migration base colour inks for sheetfed and web offset packaging printing. They have been developed specially for food packaging applications where there is no direct contact between the printed image and the contents of the package.
- UltraCURA[®] Sens Bases are specifically formulated to be suitable for non-absorbent substrates like polyethylene, polypropylene, polyester, PVC etc. as well as absorbent papers and carton boards.
- The advantage of the UltraCURA[®] Sens Base range is the ability to support applications on absorbent and non-absorbent media. Excellent adhesion and resistance on non-absorbent substrates, good ink-water balance, high colour strength, fast curing speed and, due to the low water pick up, very good press stability.
- The UltraCURA[®] Sens Base range consists of 15 base components. The base colours have high pigment loading and transfer properties, optimised for spot colour blending. Specific fastness properties can also be achieved fitting requirements often encountered in packaging printing.
- UltraCURA[®] Sens Bases are particularly suited for the production of packaging that complies with the requirements of the EU-regulation 1935/2004 and 2023/2006 as well as with the Swiss Ordinance 817.023.21. Additionally the series meets the requirements of the EuPIA Guideline „Printing Inks applied to the non-food contact surface of food packaging materials and articles“.

Advantages of UltraCURA[®] Sens Bases

- Low-odour and low-migration
- Independently analysed and approved
- Excellent press stability, ink water balance, cure and transfer
- Highly pigmented for spot colour strength and yield
- Excellent adhesion and resistance properties on non-absorbent substrates
- Low tack grading to support suitability on widest variation of absorbent and non-absorbent substrates
- Low misting
- Good duct flow properties
- 100 % solid – no VOC emissions

UltraCURA® Sens Bases

		Fastness properties				
		Light fastness	Alcohol	Solvent mixture	Alkali	Soap
Article code						
UltraCURA® Sens Bases						
UltraCURA® Sens; Transparent White	VW95-017S	Not applicable				
UltraCURA® Sens; Opaque White	VW95-027S	Not applicable				
UltraCURA® Sens; Mid Shade Yellow	VW95-137S	5	+	+	+	+
UltraCURA® Sens; G/S Yellow	VW95-138S	6	+	-	+	+
UltraCURA® Sens; Orange	VW95-237S	5	+	+	+	+
UltraCURA®Sens; Rubine Red	VW95-337S	5	+	+	-	-
UltraCURA®Sens; Y/S Red	VW95-338S	5	+	-	+	+
UltraCURA® Sens; Perm Rhodamine Red	VW95-347S	7	+	+	+	+
UltraCURA®Sens; Fast Rubine Red	VW95-348S	7	+	+	+	+
UltraCURA®Sens; Fast Warm Red	VW95-349S	7	+	+	+	+
UltraCURA®Sens; Fast Violet	VW95-417S	7	+	+	+	+
UltraCURA®Sens; Blue	VW95-518S	8	+	+	+	+
UltraCURA®Sens; Fast Reflex Blue	VW95-529S	7	+	+	+	+
UltraCURA®Sens; Green	VW95-627S	8	+	+	+	+
UltraCURA®Sens; Black Base	VW96-949S	8	+	+	+	+

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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Substrates

Ideally suited for plastic substrates like, for example, polyethylene, polypropylene, polyester and PVC. Well suited for coated and uncoated papers and board. Synthetic materials should be Corona treated with a surface energy in excess of 40-44 mN/m or with corresponding primer to achieve good adhesion. In general the ink/foil combination should be tested. In view of the wide substrates offered by various manufacturers and in order to check the suitability for the printing of food packaging we recommend carrying out your own tests before starting a print run.

Additives

Ultraking® PREMIUM Liquid Reducer (VW80-050S-X3L5). In order to preserve low-odour and low-migration properties of this series it is very important to use only this listed additive.

Varnish

To preserve low-odour and low-migration properties, please consult with Flint Group for specific application and technical recommendation advice.

Fountain solutions

Consult with your Flint Group representative for specific recommendations.

Shelf life and storage

The recommended storage temperature is 5 - 35 °C. Direct sunlight should be avoided to prevent polymerisation. Meeting the recommended storage conditions, UltraCURA® Sens Bases will remain stable for a minimum of 18 months from the date of manufacture.

Special notes

UltraCURA® Sens Bases have extremely low-odour and low-migration characteristics. A migration test according to DIN EN 14338 was made and has shown that under the conditions of the test no migration was observed.

A food packaging suitability certificate is available upon request.

Thanks to their high colour strength, UltraCURA® Sens Bases feature excellent ease in formulating and mixing shades, due to their mono-pigmentation. Furthermore it is possible to achieve all colour tones of the PANTONE® guide with the typical film weight usually applied in wet offset printing.

In case the printing press was previously running with conventional inks, it should be thoroughly cleaned and all ink residues have to be removed before printing with low-migration ink.

We recommend an accurate control of the polymerization process under the UV lamps.

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