



DELTASPEED UV LED FP SERIES

UV OFFSET INKS LOW-ODOR LOW-MIGRATION FOR FOOD PACKAGING

Field of application:

- Offset/typo machines with UV/LED drier
- commercial editions
- packaging
- self-adhesive labels





Printing substrates:

- coated and uncoated paper
- coated board
- PVC, PET, PP top coated, PS
- Polycarbonate opportunely treated for UV printing

Main Features:

- Immediate curing also on high speed printing machines
- Low-odour and low migration
- Good adhesion on various substrate - onto plastic substrate we suggest before the production a preliminary test -
- High colour strength
- Excellent ink/water balance

RESISTANCES:


DELTASPEED UV LED FP	Cod	Light	Nitro	Alcalis	UV/WB varnishes
Yellow Process**	218901	5	+	+	+
YELLOW PSO 	218991	5	+	+	+
Magenta Process**	218902	5	+	-	+
MAGENTA PSO 	218992	5	+	-	+
Cyan Process	218903	8	+	+	+
Cyan PSO 	218993	8	+	+	+
Cyan "Cu free"	218933	8	+	+	+
Black Process	218904	8	+	+	+
BLACK PSO 	218994	8	+	+	+
Yellow L.R.	218917	7	+	+	+
Red L.R.	218918	7	+	+	+

The four process colors are certified EN71: 3-2019 Toy safety - Part 3: Migration of some elements.



DELTASPEED UV LED FP SERIES

UV OFFSET INKS LOW-ODOR LOW-MIGRATION FOR FOOD PACKAGING

PSO  : FOGRA certified four-color process in accordance with ISO 2846: 1 2017, whose approval certificate is available upon request.

And also the following base colours:

DELTASPEED UV LED FP	Cod	Light	Nitro	Alcalis	UV/WB varnishes
Yellow Base**	218911	5	+	+	+
Warm Yellow L.R.	218955	6	+	+	+
Orange 021	218921	6	+	+	+
Orange L.R.	218995	7	+	+	+
Warm Red L.R.	218908	6	+	+	+
Medium Red - 032**	218932**	5-6	Restricted*	+	Restricted*
Rubine Red L.R.	218922	6	+	+	+
Rhodamine	218905	8	+	+	+
Purple	218909	8	+	+	+
Violet	218990	8	+	+	+
Blue 072	218972	8	+	+	+
Reflex Blue	218906	8	+	+	+
Green	218907	8	+	+	+
Black base	218914	8	+	+	+
Transparent White	218900	-	-	-	-
Opaque White	218910	-	-	-	-
Silver	218977	-	-	-	-
Gold R.P.	218970	-	-	-	-

* The limitation to UV / nitro varnishing concerns the use of ink at low concentrations



DELTASPEED UV LED FP SERIES

UV OFFSET INKS LOW-ODOR LOW-MIGRATION FOR FOOD PACKAGING

The following lithographic varnishes are also available:

- 195571 – LITOGLOSS UV LED FP 195571
- 195673 – LITOMATT UV LED FP 195673
- 195588 – UV/LED FP MATT VARNISH EFFECT 219650

Being a series also dedicated to the printing of plastic materials, in order to avoid unpleasant inconveniences, we always recommend a preventive test to verify adhesion to the printing support.

DELTASPEED UV LED ink series is formulated in accordance to ISO 2846-1:2017 that specifies the colour and transparency characteristics that have to be satisfied by each ink in a process colour ink set intended for proof and production printing using offset lithography. The specified printing conditions (which use a laboratory printability tester), the defined substrate and a method for testing to ensure conformance are also defined. Characteristics are specified for inks used for sheet-fed, heat-set web and radiation-curing processes.

DECLARATION OF CONFORMITY

CEE Regulation N.°1935/2004 requires that materials and articles which, in their finished state are intended to be brought into contact with foodstuffs or which are brought into contact with foodstuffs, must not transfer any components to the packed foodstuffs in quantities which could endanger human health, or bring about an unacceptable change in the composition or deterioration in organoleptic properties.



DELTASPEED UV LED FP SERIES

UV OFFSET INKS LOW-ODOR LOW-MIGRATION FOR FOOD PACKAGING

This means that the manufacturer of the finished article and the filler have the legal responsibility that it is fit for its intended purpose.

Provided that our listed products are correctly processed and that the food packaging is designed in a way that there is no direct food contact with the print we hereby confirm that they will allow compliance of the final product with the existing legal provisions.

Our products are formulated in accordance with the “EuPIA Exclusion List for Printing Inks and Related Products” (<http://www.eupia.org>). This list excludes the usage of raw materials classified as T+ (very toxic), or T (toxic), or known to be carcinogenic, mutagenic or toxic to reproduction of categories 1 and 2.

- Our listed products are formulated in such a way as to both minimise potential migration through the substrate or set-off from the printed outer side to the food contact surface in the stack or the reel. Note that set-off and migration are also dependent on the processing conditions and sufficient barrier properties of the substrate.
- Our listed products are manufactured in accordance with the CEPE, Good Manufacturing Practices for the Production of Packaging Inks, formulated for use on the non-food contact surfaces of food packaging and articles intended to come into contact with food (“GMP”). (<http://www.cepe.org>)
- On request we can give data concerning the migration test realized by our specialized research laboratory on the printed matters with DELTAFOOD Plus Inks.

N.B.: The printed surface must never come in direct contact with food.



DELTASPEED UV LED FP SERIES

UV OFFSET INKS LOW-ODOR LOW-MIGRATION FOR FOOD PACKAGING

The DELTASPEED UV LED FP series regarding the following 4 process colours:

- **Black Process UV/LED FP** **218914**
- **Cyan Process UV/LED FP** **218933**
- **Magenta Process UV/LED FP** **218902**
- **Yellow Process UV/LED FP** **218901**

Is it suitable for the composing process (Certification Scheme Additives harmless to the composting process (as of 2018-03) DIN EN 13432:2000-12)

<http://www.dincertco.tuv.com/companies/28698?locale=en>

- **max. amount: 1% single use, 4 % in combination**