

IPICURE PL 2500

Offset UV LED inks for Plastic

IPICURE PL 2500 series is the new series formulated and developed for printing on non-absorbent plastic substrates and laminated carton board stocks. This series is specifically suited for printing presses equipped with the new generation of UV Low Energy lamps and LED technology, available both Process Set and Base Colors, they are recommended for sheet-fed offset, rotary label on narrow web offset and letterpress printing presses.

Properties

We recommend the **IPICURE PL 2500** series for standard applications with the following properties:

- Good ink / water balance
- Fast curing
- Low dot gain
- Good transfer and printing consistency
- ITX free and formulated in accordance to CEPE /EUPIA Exclusion list.
- Wide latitude of fount solution tolerance
- Color shades in accordance with ISO 2846-1 and ISO 12647-2

Substrates

The **IPICURE PL 2500** UV-LED ink series is mainly suitable for:

- Pre-treated, non-absorbent substrates such as PP, PVC, PE, PS, etc.
- In-line Corona treated substrates
- Aluminium vaporized papers and carton board, playing card stocks
- Aluminium foil
- Shrinks films and adhesive labels.

In order to ensure a good adhesion of the inks, we recommend the usage of non-absorbent substrates having minimum surface tension of at least 38 mN/m, and further, we generally recommend to run specific adhesion tests before printing run.

Applications

We recommend the application of a suitable UV or LED varnish or suitable coatings in order to provide effective protection for the printed substrates. Please consider that the adhesion on non-absorbent stocks can be negatively affected by lubricant, plasticizer, or separating agent present on the substrates.

Food packaging

The products listed above are not suitable for printing primary food packaging. More information concerning the subject of packaging (food, cosmetics, etc.) can be found on the webpage of the European Printing Ink Association: www.eupia.org.

Color Gamut and Fastness Properties

Process Set		Light Fastness	Alcohol	Nitro	Alkali
Yellow	6GI-2500-0000	5	+	+	+
Magenta	6RS-2500-0000	5	+	+	-
Cyan	6BL-2500-0000	8	+	+	+
Black	6NE-2500-0000	8	+	+	+
Base Colour		Light Fastness	Alcohol	Nitro	Alkali
Yellow	6GI-4250-0000	5	+	+	+
Yellow LF	6GI-4250-0002	7	+	+	+
Orange (021)	6AR-4250-0021	5	+	+	+
Orange LF	6AR-4250-0121	7	+	+	+
Warm Red	6RS-4250-0002	3	+	+	-
Y.S.Red (032)	6RS-4250-0032	5	+	-	+
Rubine Red	6RS-4250-0000	5	+	+	-
Rub. Red LF	6RS-4250-0010	7	+	+	+
Rhodamine Red LF	6RS-4250-0003	8	+	+	+
Violet LF	6VI-4250-0001	8	+	+	+
Reflex Blue LF	6BL-4250-0001	8	+	+	+
Blue	6BL-4250-0001	8	+	+	+
Green	6VE-4250-0001	8	+	+	+
Black	6NE-4250-0000	8	+	+	+
Transparent White	6TW-4250-0000	NA	NA	NA	NA
Opaque White	6BI-2500-0000	NA	NA	NA	NA
		Light fastness based on standard ISO 12040: 1 (low) 8 (high)	Defined on standard ISO 2836: +: Resistance granted -: Resistance not granted		

*The assessment of the color properties was made under standardized printing conditions. In individual cases, under special conditions, as in printing with very high ink densities, the classification of certain properties may be different

Printing Auxiliaries

The IPICURE PL 2500 inks are ready to use products. In case small adjustments are needed for special requirements, please find the recommended additives and technical information on the table below:

IPICURE PL 2500 Press room Auxiliaries		Usage	Dosage
Thinner/Diluent	6AD-8000-0001	Suggested usage to reduce tack and viscosity of the inks during printing run	Up to 5 %
Anti-tack Paste	6AD-8000-0003	Suggested usage to reduce the tack of the inks on difficult stocks	Up to 5 %
Catalyst Past	6AD-8500-0000	Suggested usage to enhance curing speed	Up to 5%

The statements listed on this technical information sheet are according to our best knowledge. The statements do not exonerate the user from their own responsibility to determine that our products are suitable for their processes. They are intended to inform and advise and are subject to influence from the technical process. This edition of January, 2020 replaces all previous editions. With the present edition all older editions are null and void.
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ITALIAN PRINTING INKS SRL, ZONA CONSORTILE ASI - SUD, MARCIANISE (CE)

Shelf life

12 months from the production date if the container is not opened. Store between 5 - 35°C. Higher storage temperature may reduce shelf life. Protect from frost and sunlight. The cans need to be closed back immediately after usage.

Packaging

2.5 kg plastic cans