

IPICURE PB 1500

Offset sheet-fed UV LED inks for Paper and Carton Board

IPICURE PB 1500 series is the new brand UV LED series formulated and developed for printing on absorbent substrates such as paper and carton board stocks. Thanks to their high color intensity and concentration, this series is specifically suited for printing presses equipped with the new generation of UV Low Energy lamps and LED technology. Available in both Process Set and Base Colors, they are recommended for sheet-fed offset, rotary label on narrow web offset and letterpress printing application.

Properties

We recommend the **IPICURE PB 1500 UV LED** series for applications with the following properties:

- Good ink / water balance
- Fast curing
- High gloss
- Low dot gain
- Good transfer and printing consistency
- ITX free and formulated in accordance to CEPE /EUPIA Exclusion list.
- High mechanical resistance.
- Wide latitude of fount solution tolerance
- Suitable for laser printers, hot-foil and cold-foil stamping (test is required)
- Color shades in accordance with ISO 2846-1 and ISO 12647-2

Substrates

The **IPICURE PB 1500 UV LED** ink series is mainly suitable for:

- Coated and uncoated papers and cardboard stocks.
- Top-coated grades of laminated board

In case peculiar substrates or specific adhesion performance are required, we recommend that proper and specific tests were carried out before printing run.

Applications

Considering the good mechanical resistance of the cured ink layers, on coated papers no varnish protection is required, however in case of special substrates or in more demanding applications, we recommend to use suitable coatings in order to provide effective protection for the printed substrates. Please consider that highly absorbent stocks can significantly reduce the curing speed and the surface properties.

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-1500-0000	5	+	+	+
Magenta	6RS-1500-0000	5	+	+	-
Cyan	6BL-1500-0000	8	+	+	+
Black	6NE-1500-0000	8	+	+	+
Base Colour		Light Fastness	Alcohol	Nitro	Alkali
Yellow	6GI-4150-0000	5	+	+	+
Yellow LF	6GI-4250-0001	7	+	+	+
Orange (021)	6AR-4150-0021	5	+	+	+
Orange LF	6AR-4250-0121	7	+	+	+
Warm Red	6RS-4150-0002	3	+	+	-
Y.S.Red (032)	6RS-4150-0032	5	+	-	+
Rubine Red	6RS-4150-0001	5	+	+	-
Rub. Red LF	6RS-4250-0010	7	+	+	+
Rhodamine Red LF	6RS-4150-0003	8	+	+	+
Violet LF	6VI-4150-0000	8	+	+	+
Reflex Blue LF	6BL-4150-0002	8	+	+	+
Blue	6BL-4150-0001	8	+	+	+
Green	6VE-4150-0001	8	+	+	+
Black	6NE-4150-0000	8	+	+	+
Transparent White	6TW-4150-0000	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 PB 1500 inks are ready to use products. In case small adjustments are needed, please find the recommended additives and technical information on the table below:

IPICURE PB 1500 Press room Auxiliaries		Usage	Dosage
Thinner/Diluent	6AD-8000-0000	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 metal cans