

IPICURE D-UV 1950

Offset UV inks for Low Energy Lamps for Plastic and Paper Substrates

IPICURE D-UV 1950 series is the new series formulated and developed for printing on non-absorbent plastic substrates, laminated carton board and paper stocks. This series is specifically suited for printing presses equipped with the new generation of UV Low Energy lamps, 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 D-UV 1950** series for standard applications with the following properties:

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

Substrates

The **IPICURE D-UV 1950** UV 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.
- Paper and Carton Boards

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 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

| IPIPURE D-UV 1950 * | | | | | |
|---------------------|---------------|---|---|-------|--------|
| Process Set | | Light Fastness | Alcohol | Nitro | Alkali |
| Yellow | 6GI-1950-0000 | 5 | + | + | + |
| Magenta | 6RS-1950-0000 | 5 | + | + | - |
| Cyan | 6BL-1950-0000 | 8 | + | + | + |
| Black | 6NE-1950-0000 | 8 | + | + | + |
| Base Colour | | Light Fastness | Alcohol | Nitro | Alkali |
| Yellow | 6GI-4195-0000 | 5 | + | + | + |
| Yellow LF | 6GI-4195-0002 | 7 | + | + | + |
| Orange (021) | 6AR-4195-0021 | 5 | + | + | + |
| Orange LF | 6AR-4195-0121 | 7 | + | + | + |
| Warm Red | 6RS-4195-0002 | 3 | + | + | - |
| Y.S.Red (032) | 6RS-4195-0032 | 5 | + | - | + |
| Rubine Red | 6RS-4195-0000 | 5 | + | + | - |
| Rub. Red LF | 6RS-4195-0010 | 7 | + | + | + |
| Rhodamine Red LF | 6RS-4195-0003 | 8 | + | + | + |
| Violet LF | 6VI-4195-0001 | 8 | + | + | + |
| Reflex Blue LF | 6BL-4195-0002 | 8 | + | + | + |
| Blue | 6BL-4195-0001 | 8 | + | + | + |
| Green | 6VE-4195-0001 | 8 | + | + | + |
| Black | 6NE-4195-0000 | 8 | + | + | + |
| Transparent White | 6TW-4195-0000 | NA | NA | NA | NA |
| Opaque White | 6BI-4195-0000 | 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 D-UV 1950 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 D-UV 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% |

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