



TECHNICAL DATA SHEET

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| Range name : |
| SICURA Litho Board 900 |
| Description : |
| <p>SICURA Litho Board 900 is a free radical system especially developed for UV sheetfed and UV continuous printing.</p> <p>Formulation of this series is following the EuPIA exclusion Policy Guidelines For further information, please refer to safety data sheet of the product on https://www.siegwerk.com/en/our-responsibility/product-responsibility/safety-data-sheets.html.</p> |
| Application Fields / Market : |
| <p>All types of commercial and packaging jobs in UV sheetfed application.</p> <p>In continuous printing (WEB): Forms, mailing, stationery... Prints can be personalised in an additional operation, using a laser printer.</p> |
| Product safety: |
| <p>Food packaging, pharma, or hygiene: NO *</p> <p>* If the printing processing conditions rule out the possibility of set-off in the reel or stack and the design of the final printed article ensures reliable functional barrier properties to migration then this range can be used for the above applications.</p> <p>For further information, please refer to Siegwerk’s Customer Guidance: Printing Inks for Food Packaging (“Know How”) on https://www.siegwerk.com/en/our-responsibility/product-responsibility/customer-communications/food-packaging-safety.html</p> |
| Substrates: |
| <p>Papers Boards : Duplex, Triplex types and boards made of pure cellulose either natural or bleached</p> <p>Adhesion and other resistances properties require to be primarily checked for each new application</p> |
| Features - Performances: |
| <p>⇨ <u>ON THE PRESS SIDE</u></p> <ul style="list-style-type: none"> ➤ Exceptional stability of ink / water balance ➤ Compatibility with all types of dampening systems using either alcohol minimizer or conventional water fountain solutions ➤ Inks remain very stable on the rollers ➤ No misting even on high speed presses ➤ Optimum drying at maximum 400 m/min UV curing speed (with 3 lamps 160 W/cm) Reactivity is influenced by the substrate, efficiency of the lamps and reflectors, the thickness of the ink layer, colours and superposition, etc... <p>⇨ <u>ON THE PRINTING SIDE</u></p> <ul style="list-style-type: none"> ➤ Crisp process work ➤ Excellent flexibility for folding and creasing finishing operations ➤ Excellent rub resistance ➤ Overprintable with UV varnishes: see reference table page 3 ➤ The prints are well suitable for over printing by laser |



Warning :

- These UV inks are guaranteed for a period of 18 months after manufacture. Please check use by date indicated on the cans.
 - Storage temperatures should not exceed 20°C for weeks or 25°C for days. Higher storage temperature reduce the shelf life
 - Open containers must be kept away from light sources and be closed after usage.
- Please consult material safety data sheets (MSDS) for more information.
- For toy applications, please contact our technical department.

UV BLACKS :

In case where a UV varnish or lamination is applied on a blend made of a Black, we recommend to use a specific UV black and not a process black :

3 blacks are available as they suit different purposes :

- Neutral black : 71-900272-7 is designed for blending and for applications requiring UV coating or lamination.
- Intense black : 71-900443-4; 71-900209-9 are designed for heavy solids.
- Process black : 70-900315-6 is designed for process works.

Auxillary printing additives :

When certain substrates or machine conditions imply adjustments of the ink properties, the additives should be chosen in function of this substrate and of the further processing of the printed matter.

| Role | Designation | Reference numbers | Proportions |
|--------------|------------------|-------------------|-------------|
| Reducer | Reactive reducer | 81-470072-0 | 1 à 3 % |
| Tack reducer | Anti-tack paste | 81-470071-2 | 1 à 3 % |
| Cure booster | Photoinitiator | 71-470108-3 | 2 à 5 % |

For Fountain additives and Cleaning products please contact our technical department.

Packing size:

| | | | | |
|---|--------------|--------|----------------|------|
| ✓ | Plastic Tins | 2.5 kg | Packaging code | 1200 |
|---|--------------|--------|----------------|------|



The range :

• **PROCESS INKS**

| Colours | Reference numbers | IWS (1) | Alcohol | Solvent | Alkali | Laser or UV varnishing |
|-------------------|-------------------|-----------|---------|---------|--------|------------------------|
| Process Yellow * | 70-300464-8 | 5 | 5 | 5 | 5 | Yes |
| Process Magenta * | 70-800905-5 | 5 | 5 | 5 | 3 | Yes |
| Process Cyan * | 70-110781-5 | 8 | 5 | 5 | 5 | Yes |
| Process Black * | 70-900315-6 | 8 | 5 | 5 | 3 | Yes |
| Deep Black | 71-900209-9 | 8 | 3 | 3 | 4 | Yes |
| Intense Black | 71-900579-5 | 7 | 5 | 5 | 5 | Yes |

We do not recommend to use above process inks for mixing system

Process colours (*) of SICURA Litho Board 900 series have successfully passed all the tests related to PSO certification. A copy of the PSO certificate can be obtained on demand.

Process colours (*) of the SICURA Litho Board 900 series are compatible with the ISO 2846-1:2006(E) ; « Graphic technology – colour and transparency of inks sets for four-colour printing ».

Process colours of the **SICURA Litho Board 900** are ISO 2846-1 and ISO 12647-2 certified

• **MIXING SYSTEM**

| Colours | Reference numbers | IWS (1) | Alcohol | Solvent | Alkali | Laser or UV varnishing |
|---------------------|-------------------|-----------|---------|---------|--------|------------------------|
| Yellow | 71-300419-0 | 5 | 5 | 5 | 5 | Yes |
| Orange 021 | 71-700150-7 | 5 | 5 | 5 | 5 | Yes |
| Warm Red | 71-800830-3 | 3 | 4 | 4 | 3 | No |
| Fast Red 032 | 71-800829-5 | 6 | 4 | 4 | 5 | Yes |
| Rubine red | 71-800827-9 | 5 | 5 | 5 | 3 | Yes |
| Fast Rhodamine | 71-800828-7 | 7 | 5 | 5 | 5 | Yes |
| Rhodamine (fanal) | 71-800916-0 | 4 | 1 | 1 | 2 | No |
| Fast Violet | 71-100202-2 | 7 | 5 | 5 | 5 | Yes |
| Fast Blue 072 | 71-110685-6 | 7 | 5 | 5 | 5 | Yes |
| Fast Reflex blue | 71-110681-5 | 7 | 5 | 5 | 5 | Yes |
| Reflex blue (fanal) | 71-110763-1 | 3 | 1 | 1 | 1 | No |
| Process Blue | 71-110697-1 | 8 | 5 | 5 | 5 | Yes |
| Green | 71-500272-1 | 8 | 5 | 5 | 5 | Yes |
| Neutral Black | 71-900272-7 | 8 | 5 | 5 | 5 | Yes |
| Transp. white | 71-000179-3 | - | 5 | 5 | 5 | Yes |

(1) These light fastness values refer to a solid tone printing. Light fastness decreases when colour strength is reduced or if colours are intermixed

This information is based on our experience and on results obtained in the laboratory, using specific processes and types of application. In view of the diversity of substrates and printing conditions, this data is communicated for information purposes only and is provided without any warranty on our part and must be authenticated by industrial tests before the products are used. Improvements are being made to our products on an ongoing basis and we therefore reserve the right to modify their composition as well as the contents of our technical data sheets. We disclaim any liability for applications for which this ink series is not foreseen.