

TECHNICAL DATA SHEET

Date: 09.04.2018, Version: 3

Range name :

SICURA Litho Board 900

Description :

SICURA Litho Board 900 is a free radical system especially developed for UV sheetfed and UV continuous printing.

Application Fields / Market :

All types of commercial and packaging jobs in UV sheetfed application.

In continuous printing (WEB): Forms, mailing, stationery...

Prints can be personalised in an additional operation, using a laser printer.

Product safety:

This series is not suitable for: Food packaging, pharma or hygiene.

In case of food packaging application, please contact our technical department

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>

Substrates:

Papers

Boards : Duplex, Triplex types and boards made of pure cellulose either natural or bleached

Adhesion and other resistances properties require to be primarily checked for each new application

Features - Performances:



ON THE PRESS SIDE

- 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...



ON THE PRINTING SIDE

- 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.
- UV inks must be stored in a cool place
- 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:

✓	Vacuum Metallic Tins	2.5 kg	Packaging code	1200
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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.