

TECHNICAL DATA SHEET

Date: 27.07.2017, Version: 4

Range name :

SICURA Plast LO

Description :

SICURA Plast LO Low odour, is a free radical UV offset system especially developed to achieve both low odour and outstanding adhesion properties on a wide range of synthetic materials printed either in sheet fed or rotary offset presses.

Application Fields / Market :

SICURA Plast LO is dedicated to any application requiring low odour level for example:

Wrap around labels

Sleeves

Cosmetics, perfumes, spirits packaging

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:

Coated paper and board, Metallized paper and board

Primed aluminium foil, Primed metallized polyester, Aluminium

Treated oriented polypropylene (e.g. Exxon 38LL247, Treofan GND 40...)

Polyester, Polystyrene, PVC

Tin plate prepared for metal decoration applications (White base coat or clear laquer)

It is advisable to always conduct adhesion tests prior to printing

Features - Performances:



ON THE PRESS SIDE

- Very stable ink/water balance even during long runs
- Compatible with all types of dampening systems with or without alcohol
- High speed runnability > 10000 f/h and > 250 m/mn



ON THE PRINTING SIDE

- Low odour
- High colour strength
- Minimum dot gain
- Outstanding adhesion
- Very good film flexibility for post-processing
- Overprintable with UV varnishes

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 :

1 black is available as they suit different purposes :

→ Deep black : 71-980233-2 is designed for heavy solids only, to be checked in case of lamination.

Complementary blacks are available in the SICURA Litho Plast SP series

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	71-470085-3	1 à 3 %
Cure booster	Photoinitiator	71-470062-2	1 à 3 %
Mixt cleaning product	Soluve 22	75-650144-1	Pure

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	UV Varnishing
Process Yellow	70-380154-8	5	5	5	5	Yes
Process magenta	70-880175-8	5	5	5	3	Yes
Process cyan	70-113275-5	8	5	5	5	Yes
Process black	70-980166-6	8	5	5	5	Yes
Deep Black	71-980233-2	7	1	1	1	Yes*

Process Yellow, Process magenta and Process Cyan can be used for mixing system, whereas using the Process and the Deep Black are not recommended

*** For heavy solid only**

For Process colours series compliant with the ISO 2846-1:2006(E), please contact our technical department.

• MIXING SYSTEM

Colours	Reference numbers	IWS (1)	Alcohol	Solvent	Alkali	UV Varnishing
Orange 021	71-710209-9	5	5	5	5	Yes
Warm red	71-880185-5	5	4	3	5	Yes
Fast rubine	71-880260-6	7	5	5	5	Yes
Fast rhodamine	71-880259-8	7	5	5	5	Yes
Violet	71-100815-1	7	5	5	5	Yes
Fast reflex blue	71-113334-8	7	5	5	5	Yes
Green	71-510536-7	8	5	5	5	Yes
Opaque white	71-013998-1	7	5	5	5	Yes
Opaque White last unit	71-013999-9	7	5	5	5	Yes
Transp. white	71-004038-7	/	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.

For missing colours, please refer to SICURA Plast SP series.

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.