

SunLit® Legend

1. Description

SunLit Legend is an innovative sheetfed offset printing ink for paper and board. SunLit Legend is applicable for publication, commercial, packaging and label printing on straight ahead presses.

2. Product features

SunLit Legend inks:

- are available as a 4 process colour offset ink set
- are based on vegetable and mineral oils
- are fresh
- are suitable to perform under challenging press room conditions such as high temperatures
- comply with the ISO 2846-1 and allow printing in accordance to the international standard norm ISO12647-2
- are drying by penetration and to a high degree by oxidation
- are free of cobalt based drying catalysts
- are highly pigmented

3. Product Suitability

3.1 Applications

SunLit Legend is intended for use in paper and board offset printing. The ink is suitable for all types and all sizes of straight ahead sheetfed offset printing machines.

The ink is not suitable for the following applications:

- Printing on foils and other non-absorbent substrates
- SunLit Legend Magenta and Yellow are not suitable for poster printing
- Food packaging applications without functional barrier
- Waterless offset printing
- Product shall not be used where the use of mineral oil is not advised

3.2 Substrates

SunLit Legend inks are suitable for the following substrates:

- any kind of matt/silk coated paper
- any kind of gloss coated paper
- any kind of uncoated paper ("offset paper")

NB: The paper quality will influence the drying performance and the gloss of the print.



3.3 Varnishability

Printed sheets with SunLit Legend can be overprinted either with an oil based overprint varnish or a water based overprint varnish.

When applying inline UV coatings a suitable primer is mandatory. When offline UV coating is applied, a water based primer is recommended or a waiting time of at least 48h is necessary.

The impact of the ink fastness has to be taken into consideration.

4. Colour Range

SunLit Legend is supplied as finished inks.

The following table sums up the light fastnesses and the resistances corresponding to the 4 process colours:

| PROCESS COLOURS | PRODUCT CODE | LIGHT FASTNESS ISO 12040* | ALCOHOL ISO 2836* | SOLVENT MIXTURE ISO 2836* | ALKALI ISO 2836* |
|----------------------------------|--------------|---------------------------|-------------------|---------------------------|------------------|
| SUNLIT LEGEND Process Black | LGD24 | 7 | - | - | + |
| SUNLIT LEGEND Process Cyan | LGD38 | 8 | + | + | + |
| SUNLIT LEGEND Process Magenta | LGD39 | 5 | + | + | - |
| SUNLIT LEGEND Process Yellow G/S | LGD41 | 5 | + | + | + |

* For more information regarding these standards, please contact your local SunChemical representative.

5. General Handling

5.1 Storage

SunLit Legend inks should be stored at ambient temperature between 5°C and 35°C. Under these conditions SunLit Legend inks have a shelf life of at least 36 months in an unopened vacuum-packed tin.

Inks supplied in drums or pails should be used within 12 months after production. Drums and pails having exceeded 12 months may be fit for purpose but must be inspected before usage. Critical is the formation of skin where there is surface contact with air (oxygen). Minor appearance of skin shall be removed provided that the ink underneath is skin-free. In either case, once the container is opened, the ink should be worked off in a timely manner.



5.2 Waste disposal

Waste disposal should be carried out in accordance with good industrial practice, observing all the appropriate local, national and regional regulations and guidance.

6. Printing Conditions

6.1 Fount Solution

SunLit Legend does not require to be run with a special fount solution.

The quality of the water and the overall printing conditions has a strong impact on the choice of fountain solution and the level of IPA required. Please consult our technical services for assistance.

6.2 Printing Plates

SunLit Legend can be run with any type of aluminium based printing plates (CtP plates, conventional positive or negative plates).

6.3 Influence of IR drier

The use of IR drier is not recommended as it might lead to an increased tendency of set off in the delivery pile.

6.4 Press cleaning

After having printed with SunLit Legend ink the press can be easily cleaned using standard press washes.

7. End-use safety

All Sun Chemical Europe printing inks and related materials are formulated in accordance with the CEPE/EuPIA Exclusion Policy. This excludes from use all materials classified according to the CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures as carcinogenic, mutagenic or toxic for reproduction in categories 1A or 1B with hazard statements H340, H350 or H360, in addition to toxic or highly toxic materials with hazard statements H300, H301, H310, H311, H330, H331, H370 or H372. None of the raw materials used in inks supplied intentionally contain the heavy metals Antimony, Arsenic, Cadmium, Chromium (VI), Lead, Mercury, Selenium. A copy of the document is available on the EuPIA website:

<http://www.eupia.org>

SunLit Legend also complies with EN71/3 (suitability for toy packaging).

8. Technical Assistance / Contacts

For further information, please contact your local Sun Chemical team.



9. Disclaimer

Our Products are intended for sale to professional users. The information herein is general information designed to assist customers in determining the suitability of our products for their applications. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Sun Chemical be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.

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