

SunLit[®] Metallics Permanent Silver MT863

1. Description

SunLit Metallics Permanent Silver is the preferred one pack silver ink if the print is overprinted or overcoated. SunLit Metallics Permanent Silver can be blended with Irocart base inks to achieve special colour shades. . This product is applicable for publication, commercial, packaging and label printing on straight and perfecting presses.

2. Product features

SunLit Metallics Permanent Silver inks:

- is a one pack press ready inks
- is vegetable based and free of mineral oils
- is based on aluminium pigments
- dry by penetration and oxidation
- is free of cobalt based drying catalysts

3. Product Suitability

3.1 Applications

SunLit Metallics Permanent Silver is intended for use in paper and board offset printing. The ink is suitable for all types and all sizes of sheetfed offset printing machines.

The inks is not suitable for the following applications:

- Non-absorbent substrates
- Poster printing
- Sensitive food packaging applications
- Waterless offset printing

3.2 Substrates

SunLit Metallics Silver inks can be printed on the following substrates:

- matt/silk coated paper
- gloss coated paper
- coated cardboard

NB: The paper quality will influence the drying performance and the gloss/brilliance of the metallic print. In particular uncoated substrates are critical.



3.3 Rub resistance

Due to the nature of the aluminium pigment the SunLit Metallics Permanent Silver provides a better rub resistance compared to other metallic printing inks. This can be improved with an oil based or waterbased coating.

3.4 Varnishability and lamination

Printed sheets with SunLit Metallic Permanent Silver can be finished either with an oil based or a water based overprint varnish. The loss of metallic sheen is reduced compared to standard silver inks.

When applying inline or offline UV coatings a suitable water based primer is mandatory. When applying a UV coating a trial under industrial conditions should be carried out prior to the production run.

It is recommended for lamination applications. Nevertheless a trial under industrial conditions is highly recommended.

4. General Handling

4.1 Storage

SunLit Metallics Permanent Silver should be stored at ambient temperature between 5°C and 25°C. Under these conditions SunLit Metallics Permanent Silver inks has a shelf life of at least 12 months in an unopened vacuum-packed tin.

4.2 Press returns

Ink from the duct should not be reused as the emulsified fountain solution can deteriorate the stability of the ink.

4.3 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.



5. Printing Conditions

5.1 Fount Solution

SunLit Metallics Permanent Silver is not required to run with a special fount solution. However Sun Chemical recommends the use of SunFount products to achieve optimal performance:

SunFount[®] 410; suitable for 5-7% IPA in normal water qualities

SunFount[®] 480; suitable for 3-6% IPA, to prevent roller glazing

SunFount[®] 455; suitable for 0-5% IPA, adapted for IPA free printing

The quality of the water and the overall printing conditions have a strong impact on the choice of fountain solution and the level of IPA required. For SunLit Metallics Permanent the optimum pH value is between pH 5 and pH5.5. Please consult our technical services for assistance.

5.2 Printing Plates

SunLit Metallics Permanent Silver can be run with any type of aluminium based printing plates (CtP plates, conventional positive or negative plates). The abrasivity of the metallic pigment can lead to shorter plate life compared to coloured inks. Baking the plate can prolong the plate life.

5.3 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.

5.4 Print density

Depending on the press conditions and substrates we recommend a wet colour density of OD 0.6 Due to the orientation of the pigment (perfect non-leaving) in this ink, an OD of 1.0 or higher is not achievable. The density should be measured with the Filter for Cyan and the polarisation filter.

5.5 Press cleaning

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



6. End-use safety

SunLit Metallics Silver are vegetable based inks intended for sheetfed offset printing.

All Sun Chemical products are formulated to the latest CEPE/EuPIA guidelines. This excludes the use of carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) or labelled (T) according to the Dangerous Substances Directive 67/548/EEC substances. Substances classified as very toxic (T+) or toxic (T) and pigments based on compounds of Antimony, Arsenic, Cadmium, Chromium (VI), Lead, Mercury, Selenium. The use of certain dyes, solvents, plasticisers and miscellaneous materials are also excluded. A copy of the document is available on the EuPIA website: <http://www.eupia.org>

7. Technical Assistance / Contacts

For further information, please contact your local Sun Chemical team or visit our website on www.sunchemical.com

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