

SunPolar™ Coldset Series

1. Description

SunPolar is a mineral oil, vegetable oil, varnish, extender and pigment based process ink series intended for use in the Coldset Offset Printing industry on paper substrates.

2. Product features*

SunPolar inks:

Intended for printing on a wide range of Coldset presses including the latest high speed machines but also on slower or older machines.

- Have good lithographic properties.
- Print well on a wide range of Newsprint and Improved Newsprint substrates.
- Have fast drying properties.
- Have good print properties.
- Have good colour gamut
- Have a paste consistency with medium body.
- Have low tack for this type of application with good overall properties.

3. Product suitability*

3.1. Applications

SunPolar inks are intended for use in the following areas:

Coldset – Offset printing on suitable absorbent substrate. It may sometimes be used for magazines and catalogues but pre-production trials are strongly recommended.

SunPolar inks should not be used for other end uses without prior discussion with your local Sun Chemical representative.

SunPolar inks are not suitable for printing food packaging

4. Colour Range

SunPolar is a 4-colour Process set.



5. General Handling

5.1. Storage

SunPolar inks should be stored in a dry well ventilated place.

Temperature of storage: from 20°C to 35°C

Shelf life: 6 months under the above conditions but Sun Chemical encourages a fast turnaround of containers to avoid changes to the product structure that may have a negative effect on print quality and product application over a longer time period.

5.2. Waste disposal

Care should be exercised in the disposal of printing ink waste. This should be carried out in accordance with good industrial practice, observing all the appropriate regulations and guidelines.

6. Printing conditions

6.1. Printing viscosities

SunPolar Inks are supplied ready for use.

6.2. Wash up solvents

There is a range of suitable wash up solvents that can be supplied by Sun Chemical.

6.3. Plates

SunPolar inks are suitable for all types of plates normally used in the Coldset – Offset industry.

7. End-use safety

SunPolar printing inks are formulated in accordance with the CEPE/EuPIA Exclusion list for printing inks and related products. This excludes the use of materials classified as carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) and labelled toxic (T) according to the Dangerous Substances Directive 67/548/EEC, or classified as very toxic (T+) or toxic (T), as well as pigments based on compounds of Sb, As, Cd, Cr (VI), Pb, Hg, Se.



End-use safety - continued

The use of certain dyes, solvents, plasticisers and miscellaneous materials are also excluded.

A copy of the document is available from EuPIA (www.eupia.org). Substances of Very High Concern (SVHC) or restricted according to Annex XIV or XVII of REACH (1907/2006/EC) are not used. In addition, these products meet the heavy metal limits specified by CONEG and the Packaging and Packaging Waste Directive (94/62/EC).

Acceptable technical performance of **SunPolar** inks is dependent on:

§ Control of suitable ink weights/densities and damper settings

§ Selection and dosage of appropriate fount solution and water type

Sun Chemical's technical team can provide assistance in the form of suggestions or direct support for our products.

8. Disclaimers

SunPolar inks are not suitable for printing food packaging.

This list of applications, substrates and processes provided in this document is not exhaustive.

Please contact your local Sun Chemical representative for full technical evaluation of your application or process.

Our Products are intended for sale to professional users. The information herein is general information designed to allow customers to determine whether our products are suitable for their intended application.

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.

