# SunLit® OptiPace

## 1. Description

SunLit OptiPace is an innovative premium strength sheetfed offset process ink system suitable for paper and board applications designed for modern high speed printing presses in both straight and perfecting formats. With its intense pigmentation, fast drying and high rub-resistant features it is perfect for the most challenging high productivity environments without any compromise on quality.

OptiPace is based on Sun Chemicals' revolutionary 'Pace' technology platform which ensures highly robust performance with low misting properties at extreme high speeds and is optimised for larger format presses that require rapid transfer of ink down through the larger press rollers at maximum speed output.

This novel technology delivers stable high-quality performance especially on difficult substrates ensuring minimal waste and stoppages which helps further underpin strong sustainability credentials due to its high bio renewable content and compliance with various eco labels.

## 2. Product features

SunLit OptiPace inks:

- are available as a 4 colour offset ink set
- are vegetable based and free of mineral oils
- comply with the ISO2846-1 and allow printing in accordance with the international standard norm
  ISO12647-2
- achieve good deinkability on coated and on uncoated papers, using the INGEDE method 11 (01/2018) and the EPRC scorecard, the officially approved industry standards for deinking testing
  and evaluation
- supports the Nordic Swan, Blauer Engel and UZ24 certifications
- contain up to 80% of renewable materials determined by an independent institute by the so called C14 method.
- are drying by penetration and oxidation
- contain up to 80% of renewable materials
- have low delamination characteristics
- have low misting at high press speeds
- are free of Cobalt based drying catalysts
- PTFE is not used
- are roller fresh

# 3. Product Suitability

## 3.1 Applications

SunLit OptiPace 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 ink is not suitable for the following applications:

- Printing on foils or non-absorbent substrates
- SunLit OptiPace Magenta and Yellow are not suitable for poster printing
- Food packaging applications without functional barrier
- Waterless offset printing

## 3.2 Substrates

SunLit OptiPace 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”)
- Any kind of coated and uncoated cardboard

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

## 3.3 Varnishability

Printed sheets with SunLit OptiPace 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.

## 4. Colour Range

SunLit OptiPace is supplied as finished inks.

The following table sums up the light fastnesses and the resistances corresponding to the 5 OptiPace colours:

| PROCESS COLOURS | PRODUCT CODE | LIGHT FASTNESS ISO 12040** | ALCOHOL ISO 2836** | SOLVENT MIXTURE ISO 2836** | ALKALI ISO 2836** |
|---|---|---|---|---|---|
| SUNLIT OPTIPACE Process Black | OTP46D1 | 8 | + | + | + |
| SUNLIT OPTIPACE Process Cyan Intense | OTP38D1 | 8 | + | + | + |
| SUNLIT OPTIPACE Process Magenta Intense | OTP39D1 | 5 | + | + | - |
| SUNLIT OPTIPACE Process Yellow Intense | OTP09D1 | 5 | + | + | + |
| SUNLIT OPTIPACE Process Black Intense | OTP24D1 | 7 | - | - | + |

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

## 5. General Handling

### 5.1 Storage

SunLit OptiPace inks should be stored at ambient temperature between 5°C and 35°C. Under these conditions SunLit OptiPace inks have a shelf life of at least 60 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.

The polypropylene ink cartridge is not a barrier to air. Oxygen diffused in the printing ink may initiate premature drying, particularly at elevated temperatures and extended storage times. Previous experience has shown that the printing inks can be used for one year after manufacturing after being stored and transported at ambient temperature and humidity.

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

SunFount® Hydropace 500-1; suitable for 0-5% IPA, adapted for IPA free printing

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

## 8. 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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## 9. Disclaimer

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