

SolarScreen® White DP 2340

(Provisional data sheet)

Part of the SOLARIS® System

1. Description

SolarScreen® White DP2340 UV Rotary Screen White ink intended for printing of labels, tags, sleeves, tickets and other applications found in the narrow web market.

2. Product Features*

DP2340 SolarScreen® Silicone-Free White** has been formulated as a stand-alone printing white and should not be blended with screen colours. To prevent cross-contamination, special care should be taken to thoroughly clean all processing equipment before changeover to or from DP2340.

- Silicone free technology makes DP2340 receptive to combination printing with the majority of flexographic, letterpress and lithographic inks without any prior modification
- DP2340 is receptive to overprinting with SOLARSCREEN SUNMATCH blending colours, but cannot be printed on top of these inks.
- Excellent fast cure response
- NVC Free

* Please refer to your local Sun Chemical representative for specific details.

** Refer to the application guide "Silicone-free Screen Whites".

English Version 1
August 2014
Page 1/3

working for you.



3. Product Suitability*

3.1 Applications

SolarScreen® White DP2340 is intended for use in the following areas:

- Rotary Screen printing of plastic labels and films for toiletries, detergents, alcohols etc.
- Combination printing with other Sun Chemical UV Flexo and UV Offset products.

SolarScreen® White DP2340 is **not** suitable for use in the following areas:

- Primary food packaging or secondary food packaging unless there is an effective functional barrier.
 - Plastic packaging and bottles will not usually provide an effective barrier to migration.
 - Printers should assure themselves that use of these products on food packaging has been fully assessed for risk and the finished printed product meets all relevant regulatory requirements.
 - Typically, the use of specifically formulated Low Migration (LM) products will be required.

SOLARSCREEN WHITE DP2340 inks should not be used for other end uses without prior discussion with your local Sun Chemical representative

*Please refer to your local Sun Chemical representative for specific details.

3.2 Substrates

SolarScreen® White DP2340 is ideally suited for most commonly used label substrates including paper, PVC, top coated polyethylene and polypropylene, and corona discharge treated polyethylene, polypropylene and PET. When using corona discharge treated stocks, substrate wetting may be further improved with in-line corona treatment.

It is strongly recommended that the handling and storage guidelines provided by the label material manufacturer are followed. In addition, thorough adhesion tests on both finished labels and labelled products should be conducted prior to a full-scale production run, especially if a new substrate is being used (see FINAT Suppliers and Users Technical Manual for Pressure Sensitive Laminates).

Not all grades of self adhesive materials are suitable for decoration with UV curing inks. Some plastics suffer from embrittlement, resulting in difficulties with application and removal of labels.

Edge curl can be a problem when some UV curing inks are applied as a 'bleed-off' on self adhesive materials. However, **SolarScreen® White DP2340** has been developed in conjunction with major laminate suppliers and exhibit excellent lay flat properties. However, this is dependent on the grade of self adhesive materials and the quality of the adhesive used.

The problem is exaggerated when excessive cure or heavy ink deposits are used, but may be avoided by leaving an un-printed border. As a number of factors influence the adhesion of the label e.g. application conditions and even curvature of the labelled surface, it is recommended that preliminary testing is conducted to ensure the performance of the final product is acceptable. For further information, please refer to your local SunChemical representative.

working for you.



4. Safety, Health and Environment

SOLARSCREEN WHITE DP2340 should be used in accordance with normal standards of industrial hygiene. Please refer to the information provided on product labels and relevant Safety Data Sheets. For more details on handling of UV materials please refer to EuPIA's latest document – 'Guidelines for Printers on the Safe Use of Energy Curing Printing Inks and Related Products'.

4.1 Storage

SOLARSCREEN WHITE DP2340 ink is supplied in 5 Kg tamper-evident black plastic buckets. Shelf life is at least 12 months from date of manufacture in their original containers when stored between 5° and 25°C and protected from direct sunlight but may remain useable for longer periods.

4.2 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 local regulations and guidelines. For more specific handling advice refer to the Safety Data Sheet (SDS).

5. Printing Conditions

SOLARSCREEN WHITE DP2340 should be mixed thoroughly before use.

5.1 Printing Materials

High quality stencil materials should be used and will enhance the quality of print. A number of compatible products are available from Sun Chemical.

5.2 Additives

SOLARSCREEN WHITE DP2340 is supplied at press-ready viscosity and do not normally require modification. However, should thinning be necessary, small additions (up to 5%) of viscosity modifier TU01 can be made.

If required, to increase cure response accelerator solution DP1750 may be added to the ink at a maximum of 3%

5.3 Wash Up

A variety of proprietary wash-up solutions are available which are suitable for use with UV inks and press components such as screens, squeegees and pipes. Please contact Sun Chemical technical services or your Sun Chemical representative for recommendations and advice.

6. End-Use Safety / Assumptions

Acceptable technical performance of **SOLARSCREEN WHITE DP2340** is dependent on:

- Control of screen mesh / film weight.
- Adequate curing on press to ensure that the print is dry before conversion.
- Full checks having been made to ensure the printed material meets customer specifications.

SOLARSCREEN WHITE DP2340 not intended to be used in applications where low migration is an end-use requirement. There are materials within the ink formulation which have the potential to migrate under certain conditions. If a label, sleeve or tag etc. forms part of a food package, it is the responsibility of the converter and food packer to ensure that migration does not exceed any permitted regulatory limitations.

Please see www.sunchemical.com for further information on Sun Chemical products and services and contact your local Sun Chemical representative for specific product advice.

SolarScreen®, SunChemical® and Solaris® are registered trademarks of Sun Chemical.

SunChemical®
a member of the DIC group 

Sun Chemical Europe
Wexham Springs
Framework Road
Slough, SL3 6PJ
United Kingdom
Tel + 44 (0)203 139 0000
Fax + 44 (0)203 139 0001
www.sunchemical.com

English Version 1
July 2014
Page 3/3

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

Registered in England No. 2647054. Registered Office: 3 High View Road, South Normanton, Derbyshire, DE55 2DT, UK. VAT Registration Number: GB216018402