

SOLVAFLEX TF OS

From the SunSpectro™ family of surface inks

1. Description

SOLVAFLEX TF OS is a NC/PA solvent-based surface ink intended for PE printing, fertilizers sacks, plastic packs and milk packs in flexo printing process.

2. Product features*

SOLVAFLEX TF OS-:

- High gloss and color strength
- Good wet and dry resistances
- Good weather and lightfast resistances (specific pigment selection)
- Good water and chemical resistances
- Low odour and taste properties
- Heat resistance up to 100-120° C
- Good rub resistance
- Is a single pack system
- Do not contain TDI or tin

*Specific application performance data, where available can be provided by your Sun Chemical representative.

3. Product Suitability

3.1 Applications

SOLVAFLEX TF OS inks are intended for use in the following areas:

- Surface printing on fertilisers sacks, Plastic packs, Milk packs

SOLVAFLEX TF OS should not be used for other end uses without prior discussion with your local Sun Chemical representative and is **not** suitable for:

- Direct food contact
- High temperature applications including microwave or ovenable designs.

3.2 Substrate

SOLVAFLEX TF OS inks are suitable for the following substrates:

- PE
- Coated and uncoated Paper

Check the ink film combination before printing

Please note that the information given here is for indication of potential uses only and more detailed information is available from your Local Sunchemical representative.

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4. Colour Range

SOLVAFLEX TF OS inks are available as bespoke finished inks, or as a blend scheme, comprising a Technology Varnish, and coloured bases. The colour range includes a process set. The range includes also the imitation gold and silver inks.

Please refer to your local Sun Chemical representative for specific details

5. General Handling

5.1 Storage

SOLVAFLEX TF OS inks are highly flammable. Suitable precautions should be observed to avoid ignition sources, temperature of storage: from 5°C to 35°C

Shelf life: 6 months under above conditions.

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.

For more specific handling advice refer to the safety data sheet (SDS).

6. Printing Conditions

6.1 Printing Viscosities

Inks must be thoroughly stirred and homogeneous before reducing with solvent.

The optimum printing viscosity depends on press and running conditions. Good results have been achieved with **SOLVAFLEX TF OS** inks at the following viscosities:

- Flexo: 18-28 sec (Din cup N°4)
- Gravure: 14-20 sec (Din cup N°4).

6.2 Reducing solvents

For Flexo

Normal:	Ethanol
Fast	Ethanol / Ethylacetate mix
Retarder:	Ethanol / Ethoxypropanol and/or n-propanol/ n-propylacetate mix

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6.3 Wash up solvents

Ethanol / Acetate blends

6.4 Cylinders / Plates

Inks are suitable for all types of aniloxes, cylinders (chemical and mechanical engraving) and flexo plates.

7. End-use safety

All Sun Chemical products are formulated to the latest version of the CEPE/EuPIA exclusion list. This excludes the use of substances classified as carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) or labelled (T) according to the Dangerous Substances Directive 67/548/EEC, substances classified as very toxic (T+) or toxic (T) and pigments based on compounds of Sb, As, Cd, Cr (VI), Pb, Hg, Se. The use of certain dyes, solvents, plasticisers and miscellaneous materials are also excluded. A copy of the document is available on request or directly from the EuPIA website, www.eupia.org

All Sun Chemical products are designed with end-use safety built-in. Combination of Sun Chemical products with products from other manufacturers may affect the suitability of the Sun Chemical product for specific end uses and/or applications. It is advised that in such circumstances the user undertakes a detailed risk assessment to ensure that safety is not compromised

Acceptable technical performance of **SOLVAFLEX TF OS** inks is dependent on:

- Control of product application weight (inks coatings and adhesives)
- Adequate drying on press (to ensure that the print is dry before conversion)
- Appropriate packaging design and structure
- Control of any migratable substances within the finished packaging structure
- Appropriate adhesive used in accordance with supplier recommendations

The choice and control of substrate, design (including coverage and coat weight), process conditions (e.g. to ensure proper drying) and any materials from other suppliers are printer or converter technical requirements. Your local Sun Chemical technical team can provide assistance in the form of suggestions or direct support for our products.

To fulfill its responsibility within the food contact materials supply chain, and following the signing of a legally binding mutual non-disclosure agreement, Sun Chemical will provide relevant information to the customer regarding migratable components present in its products through the preparation and communication of a 'Statement of Composition'.

8. Disclaimers

The **SOLVAFLEX TF OS** ink range is only suitable for use on the non-food-contact side of food packaging provided that they are applied under the relevant Good Manufacturing Practices (GMP) and according to the recommendations of this Technical Data Sheet.

The printer, converter and the packer or filler entity have the legal responsibility to ensure that the finished article is fit for the intended purpose (s) and that the ink and coating components do not migrate into the food at levels that exceed legal and industry requirements as outlined in the EU Framework Regulation (EC) No 1935/2004 and the GMP Regulation (EC)No 2023/2006 and for film applications the Plastics Directive 2002/72/EC .We recommend that the finished packaging is tested under appropriate representative conditions of use if there are any doubts regarding compliance.

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9. 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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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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