

SolarFlex® Nova SL

Part of the SOLARIS® System

1. Description

SolarFlex® Nova SL is a range of UV flexo inks intended for printing of labels, tags, sleeves, tickets and other applications found in the narrow web market.

2. Product Features*

- Flow optimised for press performance.
- Low odour for sensitive applications.
- Colour strength increased for finer anilox choice, increased colour gamut and/or lower ink consumption.
- High hold-out for highest gloss and cure even on the most absorbent papers.
- Fast curing for higher press speeds.
- Silicone-free formulation for easier lamination and post-print finishing.
- Formulated using only photoinitiators on the 'Nestlé Guidance Note' positive list. (version 22/4/10)
- Formulated without VOC's.

3. Product Suitability*

3.1 Applications

SolarFlex® Nova SL inks are intended for use in the following areas:

- Paper or grades of top-coated plastic self-adhesive labels.
- Other paper or board applications such as tags and tickets.
- Other applications such as shrink sleeves when used in conjunction with SolarSleeve™ White, SLUX84, or wrap-around labels.

SolarFlex® Nova SL inks are **not** suitable for use in the following areas:

- Uncoated Thermal papers.
- 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.

SolarFlex® Nova SL 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.

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3.2 Substrates

SolarFlex® Nova SL inks are suitable for most grades of label stocks commonly used in the Narrow Web industry. Corona treatment is recommended for non-top-coated plastic substrates to ensure an optimum treatment level of 38-44 Dynes/cm but preliminary tests should always be conducted prior to producing commercial print. With significant variation between different grades of substrates, the printer should take any specific advice from the substrate manufacturer and make any necessary tests under realistic conditions before commercial printing.

3.3 Print Finishing

SolarFlex® Nova SL inks can be over-varnished to improve gloss, physical and chemical resistance properties and are suitable for hot foil stamping or cold-foil blocking when used in conjunction with the appropriate blockable overprint varnish or adhesive such as SLD008.

SolarFlex® Nova SL inks will accept most types of VIP (Variable Information Printing) but care should be taken when producing print for subsequent VIP due to the wide variety of processes and materials available. Best results can often be obtained using an appropriate overprint varnish*.

* Please refer to your local SunChemical representative for specific details.

4. Safety, Health and Environment

SolarFlex® Nova SL inks 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

SolarFlex® Nova SL inks are supplied in 5 Kg tamper-evident black plastic buckets with spouts. 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 Sheets (SDS).

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5. Printing Conditions

5.1 Printing Viscosities

SolarFlex® Nova SL inks are supplied press-ready and should not need adjusting under normal conditions whether using open-pan or chamber configurations.

5.2 Additives

A range of press-side additives is available for non-standard conditions or applications.

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 flexo plates and pipes. Please contact Sun Chemical technical services or your Sun Chemical representative for recommendations and advice.

5.4 Plates and Rollers

SolarFlex® Nova SL inks are suitable for use with UV compatible photopolymer plates commonly used in the industry. All rollers, tubes, sealants etc. must also be resistant to UV materials.

6. End-Use Safety / Assumptions

Acceptable technical performance of **SolarFlex® Nova SL** inks is dependent on:

- Control of anilox / 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.

SolarFlex® Nova SL is 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.

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	Code	Description	Lightfastness	Alkali	Alcohol
4-colour process	SNS26	PROCESS YELLOW	5	+	+
	SNS27	PROC MAGENTA	5 ¹	-	+
	SNS25	PROCESS CYAN	7	+	+
	SNS46	PROCESS BLACK	7	+	+
Intense 4-colour process	SNS30	INTENSE PROCESS YELLOW	5	+	+
	SNS35	INTENSE PROCESS MAGENTA	5 ¹	-	+
	SNS38	INTENSE PROCESS CYAN	7	+	+
	SNS24	INTENSE PROCESS BLACK	7	+	+
Standard Blend Colours	SNS48	TRANS WHITE	N/A	N/A	N/A
	SNS15	YELLOW	5	+	+
	SNS21	ORANGE	4	+	+
	SNS31	WARM RED ⁴	3 ¹	-	+
	SNS32	RED 032	6	+	+
	SNS42	RUBINE RED	5	-	+
	SNS55	RHODAMINE ³	3	-	-
	SNS51	PURPLE ³	4	-	-
	SNS52	VIOLET ³	4	-	-
	SNS60	BLUE 072 ³	4	-	-
	SNS61	REFLEX BLUE ³	3 ¹	-	-
	SNS16	BLUE	7	+	+
	SNS71	GREEN	7	+	+
SNS50	UNTONED BLACK	8	+	+	
Resistant Colours ²	SNS13	RESISTANT GREEN SHADE YELLOW	6	+	+
	SNS19	RESISTANT ORANGE	7-8	+	+
	SNS40	RESISTANT SCARLET	6	+	+
	SNS44	RESISTANT MAGENTA	6	+	+
	SNS56	RESISTANT RHODAMINE	7	+	+
	SNS64	RESISTANT VIOLET	6-7	+	+
	SNS63	RESISTANT REFLEX BLUE	6-7	+	+
Additional Colours	SNS83	RS YELLOW	5	+	+
	SNS20	TRANS ORANGE	4	+	-
	SNS45	FIRST-DOWN WHITE	N/A	N/A	N/A
	SNS79	DENSE BLACK	7	+	+

¹ Lightfastness under wet conditions, such as during external exposure is significantly worse for certain colours. Please consult our technical services for recommendation of alternative shades.

² Resistant colours may differ slightly in shade from the equivalent non resistant colour.

³ Contains dye complex (Fanal) pigment which may bleed/migrate under certain conditions.

⁴ Contains Barium

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