

SolarFlex™ UVF Neutron White Technical Data Sheet

Provisional TDS

SolarFlex UVF Neutron Opaque White is a UV flexo first-down white intended for printing of labels, tags, sleeves, tickets and other applications found in the narrow web market where high opacity and whiteness is required.

Typical Characteristics and Features

SolarFlex UVF Neutron Opaque White Ink is formulated to have the following properties:

- Highest opacity and excellent printability for maximum covering power
- High gloss
- Low viscosity for optimum pumping and press performance
- Formulated without Bezophenone or ITX
- Excellent cure at high press speeds
- High chemical and product resistance
- Can be laminated, overprinted, stamped, and glued
Note: Should always be pre-tested to ensure ink performance.

Technical Information and ink handling

Viscosity

Supplied press ready and should not need any modifications under normal conditions whether using open-pan or chamber configurations.

Plates and Rollers

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.

Doctor blades

Hardened-edge single or chambered doctor blades are recommended.

Cure

SolarFlex UVF Neutron Opaque White ink is formulated press-ready and provides required cure rates for high speed printing. The UV-cure rates are proportional to available UV lamp output capacity, film weight, and applied color density. For most applications, a minimum of 50 mJ/cm² is recommended, however some applications may require more energy. A program of regular reflector maintenance and lamp replacement is beneficial in achieving the highest press productivity, efficiency and performance with all UV-curable inks.

| Description | EMG | SAP 5-Gallon Pail | SAP 1 Gallon Jug |
|----------------------|--------------|-------------------------|------------------------|
| UVF Neutron White | FLNFV1485222 | 91663218 | 91731657 |

Substrates

Suitable for most grades of label stocks, films, metallized films commonly used in the narrow web industry. Corona treatment is recommended for non-topcoated substrates to ensure an optimum treatment level of 38-44 Dynes/cm, but preliminary tests should always be conducted prior to producing commercial print.

Clean-up

SolarFlex UVF Neutron Opaque White is cleaned using standard press washes recommended for use with UV-curable inks, such as Sun Chemical Rycoline® SunClean TL for manual cleaning or SunVisto Autowash 200 for use with automatic cleaning systems.

Storage Considerations

Shelf life is at least 12 months from date of manufacture in their original containers when stored between between 40°F-77°F (5-25°C) and protected from direct sunlight, but may remain usable for longer periods. Ink should be stirred gently prior to using.

Safety, Health and Environment

SolarFlex UVF Neutron Opaque White ink is to be used in accordance with normal standards of industrial hygiene and good manufacturing practice. Please refer to the Safety Data Sheet for specific information. Safety Data Sheets will be supplied.

Printing inks, coatings and printing residues should be disposed of in accordance with local and national regulations.

The information contained in this technical data sheet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. Our products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed to in writing.



Sun Chemical | North American Inks | 135 West Lake Street | Northlake, IL 60164
+1.708.236.3798 | www.sunchemical.com | naimarketing@sunchemical.com
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