# **UVDEV8203, UV Flexo Dense Black**

Part of the SOLARIS® System

# 1. Description

**UVDEV8203, UV Flexo Dense Black Ink** is a UV flexo black ink offering a good balance of density, cure and adhesion. It is intended for printing of labels, tags, sleeves, tickets and other applications found in the narrow web market.

# 2. Product Features\*

- Fast curing at high black densities, achievable with low volume aniloxes
- Good adhesion to a wide range of filmic materials
- Low viscosity and good flow for optimum press performance
- Good gloss, scratch and scuff resistance
- Formulated without Benzophenone, ITX and 4-Methyl Benzophenone

# 3. Product Suitability\*

### 3.1 Applications

UVDEV8203, UV Flexo Dense Black Ink is 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.
- o Other filmic applications where fast curing at high black density is required.

# UVDEV8203, UV Flexo Dense Black Ink is not suitable for the following:

- Uncoated or Coated Thermal papers.
- o Primary 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.

**UVDEV8203, UV Flexo Dense Black Ink** should not be used for other end uses without prior discussion with your local Sun Chemical representative

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<sup>\*</sup>Please refer to your local Sun Chemical representative for specific details.

#### 3.2 Substrates

**UVDEV8203, UV Flexo Dense Black Ink** is 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

**UVDEV8203, UV Flexo Dense Black Ink** can be over-varnished to improve gloss, physical and chemical resistance properties and we would recommend a small test run on the suitability for hot foil stamping or cold-foil blocking when used in conjunction with the appropriate blockable overprint varnish or adhesive such as SLD008.

**UVDEV8203, UV Flexo Dense Black Ink** will accept most types of VIP (Variable Information Printing) but great 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\*

# 4. Safety, Health and Environment

**UVDEV8203, UV Flexo Dense Black Ink** 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

**UVDEV8203, UV Flexo Dense Black Ink** is supplied in 5 Kg black plastic buckets with spouts. Shelf life is 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. Inks should be stirred gently before use.

# 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).

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<sup>\*</sup> Please refer to your local SunChemical representative for specific details.

# 5. Printing Conditions

# 5.1 Printing Viscosities

**UVDEV8203**, **UV Flexo Dense Black Ink** is supplied press-ready and should not need adjusting under normal conditions whether using open-pan or chamber configurations.

#### 5.2 Additives

A number of press-side additives are 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

**UVDEV8203**, **UV Flexo Dense Black Ink** is 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 UVDEV8203, UV Flexo Dense Black Ink is dependent on:

- Control of anilox / film weight. Usually applied with an anilox volume 3-5 cm<sup>3</sup>/m<sup>2</sup>
- 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.

Choice and control of film weight, curing and substrate are printer technical requirements for which the Sun Chemical technical team can provide assistance if required.

**UVDEV8203, SolarFlex Dense Black Ink** 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 <u>www.sunchemical.com</u> for further information on Sun Chemical products and services and contact your local Sun Chemical representative for specific product advice.

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