

W0001108611	Product Family: -----
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NC/Melamine Ink with Exceptional Resistance to Heat-sealing

1. Description

White for gravure and flexography for prints with exceptional high resistance to heat-sealing. Application field are packages for food and pharmaceuticals.

2. Product Features and Suitability

The ink film has to cure to reach the high resistance to heat sealing. The chemical reaction needs elevated temperature. We recommend 80 °C for at least 5 seconds.

Films of white W0001108611 contain more residual solvent than standard NC inks with lower resistance to heat-sealing. Therefore retarder has to be used very carefully.

- Adhesion 5
- Resistance to scratching 4
- Resistance to creasing 4
- Resistance to abrasion 4
- Resistance to heat sealing
 - smooth sealing tools up to 290 °C (depending on the coating of the aluminum foil)

3. Substrates

Substrate	Remark
Coated aluminum foil	
Adhesion and resistance to heat-sealing depend on the coating. We recommend preliminary examinations.	

4. Printing Conditions

4.1 Cylinders/Plates

The product/products is/are suitable for all types of flexo plates, aniloxes and gravure cylinders.

4.2 Printing Viscosities

The product/products should be stirred thoroughly and homogeneous before reducing with solvent. The optimum printing viscosity depends on press and running conditions. Good results have been achieved at the following viscosities:

- Rotogravure : 15 – 16 sec./DIN 53211* cup 4 mm corr. 28 – 34 sec./DIN 53211* cup 3 mm
- Flexography : 18 – 25 sec./DIN 53211* cup 4 mm

* = The standard DIN 53211 has been replaced since several years with ISO 2431. This new standard has not been introduced completely in the German printing industry so far.

working for you.



4.3 Reducing Solvents

- Diluent Mixture of Ethanol and Ethyl acetate in the ratio of 4:1
- Retarder Methoxy propanol
- Accelerator Ethyl acetate

The diluent has to contain 20 % Ethyl acetate, otherwise the stability of the ink during production printing will decrease.

4.4 Wash up Solvents

Ethanol/Ethyl acetate blends are more effective than Ethanol only.

5. General Handling

5.1 Storage

Warehouses should be approved and equipped appropriately. For more specific advice refer to the Material Safety Data Sheet (MSDS).

A storage stability of 12 months is guaranteed for unopened containers with intact seals when stored correctly (Temperature range between 10 and 25 °C).

5.2 Waste Disposal

Care should be exercised in the disposal of product 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 Material Safety Data Sheet (MSDS).

6. End-use Safety

All Sun Chemical products are formulated to the latest CEPE/EuPIA guidelines. This excludes the use of carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) or labeled (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, plasticizers and miscellaneous materials are also excluded. A copy of the document is available on request.

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 Sun Chemical 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
- Suitable 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. Sun Chemical's technical team can provide assistance in the form of suggestions or direct

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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.

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support for our products.

Food Packaging: It is the ultimate responsibility of the food packer to ensure packaged food is safe. With regard to potential migration of substances in to the foodstuff from the printed packaging, it is the responsibility of the converter and food packer to ensure that migration does not exceed any permitted regulatory limitations.

To fulfill its responsibility within the supply chain, and following the signing of a legally binding mutual non-disclosure agreement, Sun Chemical will provide details to the customer of any potential migratable components present in its products through the preparation and communication of a 'Statement of Composition'

7. Disclaimers

This list of applications, substrates and processes provided in this document is not exhaustive. Please contact your local Sun Chemical representative for full technical evaluation of your application or process.

The performance of the product and its suitability for the customers' purpose depend on the particular conditions of use and materials being printed. Therefore, any statement provided in this document should not be construed as providing a guarantee of performance in a specific application area. Sun Chemical always recommends that customers carry out a full evaluation of performance and safety-in-use prior to using our products in commercial applications.

These products are 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 printers, converters and the packer/filler have the legal responsibility to insure 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.

8. Technical Assistance/Contacts

For further information, please contact your local Sun Chemical team or visit the Technical Help Desk at website: <http://www.sunchemicalhelpdesk.com>

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