

TECHNICAL DATA SHEET

1. DESCRIPTION

BIOINK **BIOINK** is a versatile solvent based ink system for surface printing of flexible food packaging.

2. PRODUCT FEATURES

BIOINK inks:

- Have good printability
- Are suitable only for surface prints

3. APPLICATIONS

BIOINK ink is intended for use in the following areas: surface printed flexible food packaging.

BIOINK ink should not be used for other final application without prior discussion with your local Euroink Distribution representative and is not suitable for direct food contact and lamination.

4. SUBSTRATES

BIOINK ink is suitable for the following substrates:

- Biofilm

5. GENERAL HANDLING

5.1. Storage:

- **BIOINK inks** are considered highly flammable. Suitable precautions should be observed to avoid ignition sources.
- Temperature of storage: from 5°C to 35°C
- Shelf life: 12 months under above conditions in tightly sealed containers.

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 thoroughly be stirred and homogeneous before reducing with solvent.

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

- Rotogravure : 12-18 sec (Ford Cup Nr. 4)
- Flexography: 16-25 sec (Din Cup Nr.4)

6.2. Reducing Solvents

- Flexo (SOLID)

Normal : Ethyl alcohol/ ethyl acetate : 80:20

Slow : Alcohol/ N-Propyl acetate :80:20

- Rotogravure

Normal : Ethyl alcohol/Ethyl acetate- 20:80

Retarder: Methoxypropanol, n-propyl alcohol

6.3. Wash up solvents

Mixture Alcohols / Esters

6.4. Cylinders / Plates

BIOINK inks are suitable for all types of anilox and different types of plates.

7. END-USE SAFETY

BIOINK is a solvent based ink system intended for using on flexible food packaging.

All Euroink Distribution 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 labelled (T) according to the Dangerous Directive 67/548/EEC, substances classified as very toxic (T+) or toxic (T).

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 documents is available on request.

All Euroink Distribution products are designed with end-use safety built-in. Combination of Euroink Distribution products with products from other manufacturers may affect the suitability of the Euroink Distribution 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 **BIOINK** inks is dependent on:

- a) Adequate drying on press (to ensure that the print is dry before conversion)
- b) Appropriate packaging design and structure
- c) Control of any migratory substances within the print, film or adhesives

Euroink Distribution's technical team can provide assistance in the form of suggestions or direct support of our products.

Food Packaging: It is the ultimate responsibility of the food packaging supply chain to ensure packaged food is safe. With regard to potential migration of substances into food from the printed packaging, it is the responsibility of the converter and food packager to ensure that no such migration occurs beyond permitted regulatory levels.

To fulfil its responsibility within the supply chain Euroink Distribution will provide details to the customer of potential migration components, where present in its inks, through the preparation and communication of a 'Statement of Composition'.

8. DISCLAIMERS

The **BIOINK** ink is not intended for direct food contact.

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

9. TECHNICAL ASSISTANCE / CONTACTS

For further information, please contact your local Euroink Distribution team.

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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 Euroink Distribution 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.

This form is valid without signature.