

TECHNICAL DATA SHEET

1. DESCRIPTION

RENFLEX

RENFLEX is a flexography nitrocellulose solvent based ink suited for the external printing of bundles in heat shrink POLYETHYLENE.

2. PRODUCT FEATURES

RENFLEX inks:

- Good printability.
- Exclusively suited for external printing.
- Good adhesion without adding adhesion promoters on polythene films with corona 38 dyne/cm treatment.
- Suited for face and verso printing on tubular PE or bitreated monofilm hence with corona/print treated film contact during rewinding. Make sure, for this application, that the total solvent retention in the print phase does not exceed 10 mg/sq m.
- Heat resistance of print of 110/120°C.
- Suited for the printing of low density polyethylene for heat shrink processes. It has good flexibility and adhesion to the point of eliminating stretch marks that occur with other series on the bundle that wraps the bottles after heat shrinking. It is also the solution to the problem of print tearing in the areas over the bottle tops.
- Suitable for bags PP

3. APPLICATIONS

The series has been created for the external flexographic printing of low density polyester for heat shrink process. It is highly flexible and adheres to the point of eliminating bursting or stretch marks that occur with other series of PE bundles used for the transportation of bottles when shrunk passing through ovens at 180°C.

4. SUBSTRATES

The series can be used on the following substrates:

- Paper of all types
- Corona > 38 dyne/cm treated PE
- Corona > 38 dyne/cm treated coextruded and oriented PP after 2% add of adhesion promoter
- Low plasticization PVC (subject to preliminary testing) PT Cellophane

5. GENERAL HANDLING

5.1. Storage

- The product contains solvents considered highly inflammable. 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

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. Print viscosity

Prior to use mix the product well and add the solvent required to obtain the right print viscosity. The optimum printing viscosity depends on press and running conditions. Good results have been achieved with these inks at the following viscosity:

- 16-25 sec (DIN cup N°4)

6.2. Solvents

- Flexography (solids)

Normal: Mixtures of ethyl alcohol, i.propyl, n.propyl /ethyl acetate, up to a ratio of 80/20

Slow: n-propyl alcohol, metoxypropanol, etoxypropanol

- Flexography (Process)

Normal: Mixtures of ethyl, n-propyl/ alcohol, i.propyl, n-propyl /ethyl acetate, up to a ratio of 80/20

Slow: etoxypropanol

6.3. Wash up solvents

Mixtures of acetates and esters

6.4. Cylinders/Plates

The Euroflex Termic series can be used with all types of aniloxes and photopolymer plates used in flexography.

7. END-USE SAFETY

The good application of the inks depends on:

- a) control of weight of applied ink
- b) adequate drying on press

- c) the correct structure of the laminate
- d) correct design of the packaging
- e) monitoring of all substances that might migrate from the ink and/or substrate
- f) control of other parameters related to the article

Euroink Distribution can offer assistance in the handling of the above parameters.

Food packaging: in the event the printed packaging is for food contact it be reiterated that the entire process chain is held responsible.

With particular regard to the potential migration of the substance from the printed packaging to the food contained therein the printer and the food packager have the prime responsibility of guaranteeing correspondence of the selfsame packaging to the regulations in force.

For its part Euroink Distribution will provide the customer all the information needed to highlight any potential risk of migration due to the inks.

8. DISCLAIMERS

The ink is not intended to 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.

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