

# PROPAFLEX SERIES

## Characteristic

Glossy flexographic printing inks

## Fields of application

The PROPAFLEX series is designed for the surface printing of the following treated substrates:

- Polyethylene: treated LDPE and HDPE with a surface tension exceeding 38 mN/m (dyne/cm)
- Polypropylene: treated BOPP and PP coex with a surface tension exceeding 38 mN/m (dyne/cm), adding our adhesion promoter AX4200 (see: Operating Instructions table)
- Polyester: chemical treated side
- Polyester: PVDC coated side

The PROPAFLEX series is available in various versions:

- PROPAFLEX: standard line.
- PROPAFLEX/RFS: our premium ink system formulated for anilox up to 500 lcm, produce extraordinary colour intensity and print clean with slow drying speed. PROPAFLEX RFS series always needs the addition of our ADHESION PROMOTER AX4200 (see: Operating Instructions table).
- PROPAFLEX/LAT: to print the no food-contact side of materials and articles intended to come into contact with food.

Due to the great variety of substrates available on the market, we suggest to always check the surface tension and the ink adhesion before starting a new print job. We also recommend to verify whether the resistances/fastness of the printed inks fulfil the application specific requirements.

## Ink properties

- Very good printability even on front and reverse sides
- High concentration and yield (RFS version)
- High fastness to food simulants (LAT version)
- High brightness
- High thermal resistance (thermoseal)
- Very good adhesion
- Good scratch resistance
- NOT suitable for pasteurization or sterilization

## Technical data and resistance characteristics

- The reference values of the Pantone® and spot colours will be given upon customer's request
- All the PROPAFLEX versions can be formulated with light fastness pigments

## Operating instructions

Stir well before use to be sure that all the components are evenly distributed, before you proceed to the dilution

Dilute according to the printing conditions and desired quality of the finished product	DILUENTE TERMOFLEX BASE DL2202 80 % ETHANOL / 20 % ETHYL ACETATE	max 30 %*
To prevent ink consistency reduction when high dilution is needed	VERNICE PROPAFLEX 400/AC VERNICE DIL. 010813 PROPAFLEX RFS/AC	*
To reduce ink drying speed	METOXYPROPANOL or ETOXYPROPANOL RITARDANTE TERMOFLEX SV 13	*
To print polypropylene film and enhance adhesion to difficult substrates	ADHESION PROMOTER AX4200 **	max 4% *
Propaflex RFS series <u>always add</u>	ADHESION PROMOTER AX4200 **	5 - 8% *
To enhance surface slipperiness	ADDITIVE COF 010861	max 3 %*
To enhance abrasion resistance	PASTA ANTISCRATCH TERMOFLEX AX 20	max 2 %*

### Notes:

\* The proper quantity will be assessed by the printing conditions and by the quality of the finished product

\*\* Add the AX4200 adhesion promoter to the ink when diluting on the printing machine, under mixing. After printing the mixed ink, clean the rollers and machine parts with Ethyl Acetate. Full adhesion of the ink is reached 24 hours after printing. Viscosity build up may occur if the mixed ink is stored for long time.

In order to prevent blocking or solvent retention in the printed roll, the following precautions should be considered:

- Properly dry the ink after printing

## Storage

- PROPAFLEX inks have a shelf life **longer than one year** while PROPAFLEX **metallic** inks have a shelf life **not longer than 6 months** from the date of production if stored at room temperature (15-25°C) in their original containers. In both cases, if the product is stored for a longer period of time than the mentioned, it is necessary to perform a lab analysis to test its suitability to use
- Please contact our Technical Department for storage information about Rhodamine, Reflex Blue, Purple and Violet PROPAFLEX inks.

## General information

- The PROPAFLEX ink series includes the process colours, the Pantone® and spot colours. Contact our technical service for the LAT version
- The PROPAFLEX are available in 25 Kg, 180 kg and 900 kg buckets
- MSDS will be made available with the first supply and at each revision or upon customer request
- Any declaration concerning specific regulations of customer interest will be evaluated and supplied on request

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