# **SCREEN INKS**



# POLITAC Glossy inks

## **Product description**

Politac inks are two pack glossy inks specially recommended for printing on polythene materials (high and low density ) and polypropylene, PET, PETG.

These materials must be flame pre-treated.

Politac inks are very well known in the field of decoration of bottles and containers in polythene for pharmaceutical, cosmetic and industrial use etc...

In these applications Politac are very well introduced and some manufacturer of printing machines expressly suggests the use of this product due to their excellent performances.

Moreover many firms impose that their containers should be printed only with Politac, as they recognize the great qualities of these inks.

### **Main characteristics**

Politac inks are much more preferable to ordinary inks for polythene especially when very high speed printing machines are employed. Their main characteristics are the following:

### Ultra rapid drying time

Evaporation of solvents at room temperature takes 10 - 15 minutes.

In hot air blast ovens at  $70-80^{\circ}$ C in about 1-2 minutes a superficial drying is achievable, which allows the piling and handling of the containers without colour detachment among the single containers. Instant drying is possible by passing the containers through a flame soon after printing.

## **Resistance to chemical products:**

After evaporation of solvents a new process of curing begins, giving to the printed ink a complete resistance to products, which are usually packed in polythene containers.

After full curing Politac inks have a complete resistance to detergents, oils, fats, and to many other chemical products. Full curing is achievable at room temperature within 3-4 days after printing.

Please consider that humidity can badly influence curing and chemical resistance.

# Adhesion

After a proper treatment (flame) the adhesion of the ink is very good on all kinds of polythene.

In order to print onto polythene and polypropylene materials is absolutely necessary that possible shortly before printing they undergo through flame treatment.

It is advisable to use a flame with a high oxidizing power, achievable combining a flow of air to domestic gas.

# Sirpi)

# **SCREEN INKS**

# High coverage

These inks have a much more remarkable coverage than ordinary inks for polythene.

Some colours can cover a surface of about 50/60 sqm/Kg, whilst white and opaque colours can cover about 35/40sqm.

## **METHODS OF EMPLOY**

The Catalyst 244 can be added max 10% to Politac inks.

Sometimes, especially in a warm printing department, could be necessary to reduce the percentage of catalyst to a max. 6%.

Alternative to 244 type we manufacture Catalyst 250 that allows a slower polymerisation and has a pot life of several weeks of the mixture ink/catalyst.

We suggest using a mixture of both catalyst (for ex. 3% of cat 244 and 6% of cat 250) in order to get the right adjustment of the printing speed by comparison with the printing requirements and the temperature of the printing environment.

Our technical staff is at your disposal for all the information you need about the use of Politac inks.

#### Thinning:

Several thinners are provided and they are employed depending on the speed of the printing machine and on room temperature. Thinning 5-10% with the appropriate thinner is advisable.

It is also advisable to clean the screen immediately after printing, as the removal of this ink from the fabric meshes is practically impossible after drying. We suggest cleaning the mesh with our cleaning solvent 251.

# **Overprinting:**

It is advisable not to cure a colour completely when it is supposed to be overprinted by another.

It is better to allow only a superficial drying of the first colour and then to cure fully all colours after printing. If not it is possible to obtain a poor adhesion among them.

### **RANGE OF COLOURS:**

Politac inks are available in 18 standard colours of our colour chart.

We can provide also the 12 shade of our mixing system called Colour System in order to allow our customers to mix the products and reach a large number of shades by them.

Silver and gold colours have to be prepared every single time, as they cannot be preserved.

Colours on request can be provided in a minimum quantity of 20 Kg.

&-&-&-&-&-&

This information is based on our direct experience but it does not answer any real guarantee.

Politac.doc - REV. N° 4 del 16.05.2005

Pagina 2 di 2