

Serie " ECO-PLASTIGLOSS "
Glossy vinyl inks

General description

These newly-formulated inks are based on choiced raw materials selected for the specific purpose of making the working environment more healthy.

In fact, thanks to the use of special copolymers and low-odour solvents, the printing environment will be free from the strong smell, typical of traditional inks used for printing on plastic materials.

Due to their peculiar formulation, they are particularly suitable for printing on PVC, and thermoplastic materials in general.

They are used on self-adhesive materials (P.V.C. - metallized materials - treated polyesters), on materials based on acrylic resins (perspex, plexiglas), polystyrene, cellulose esters, polycarbonate, etc.

Characteristics

"ECO-PLASTIGLOSS" inks are thermoplastic and have an extremely glossy finish.

They have a weak odour, and according to E.E.C. regulations they are not labelled harmful or irritant. Furthermore all colours are of F.P.T. type (no Lead and Cadmium inside). It means that they comply to EN 71 – III regulation for application on food packaging and toys.

Their main features are the following:

- very good printability
- stability on the screen (self-solving)
- smooth look of the printings (absence of "orange peel" effects)
- very glossy aspect
- very high opacity
- fast drying
- very good adhesion on various plastic supports
- good performance during vacuum moulding

Applications

The use of these inks is specially suggested for printing on self-adhesive materials with semi-automatci and high speed fully automatic machines.

A proper drying allows to work "high pile"without sticking problems.

Due to their very good adhesion properties and high mechanical resistances, "ECO-PLASTIGLOSS" inks are particulary suitable for printing on membrane switches.



Colour range

“ECO-PLASTIGLOSS” inks are supplied in twenty colours as shown in our colour card and also in twelve basic shades of our matching system named “**color system**”.

Trichromatic shades in Europa Scale are available.

Gold and Silver are supplied ready for use.

Our company manufactures also special shades on request for a minimum quantity of Kg. 20.

Thinning

The high viscosity allows an addition of about 10% of the appropriate thinner before printing.

The following thinners are supplied:

- Plastigloss 241 slow thinner
- Plastigloss 242 medium thinner
- Plastigloss 243 fast thinner
- Plastigloss 246 retarder

Drying

Printing on self-adhesive materials, the average time of superficial drying is about 15 minutes, while complete deep drying takes approximately 20-25 minutes at room temperature.

With high-rate production automatic machines, combined with forced air blast-ovens the materials can be piled up as soon as they come out of the oven.

It is suggestable however, particularly in case of multilayer printing to control accurately the drying before piling up the sheets.

Coverage

Printing with 100/120 threads/cm. with a 10% thinning it is possible to achieve a coverage of about 50 - 70 mq/Kg depending from the shade. Transparent colours have a much higher coverage.

Warning

On very plasticized P.V.C. materials and on those that have lubricants and silicones on the surface, a good standard of adhesion is often not achievable.

For this reason it is advisable to make adhesion tests on every lot of vinyl material.

In case adhesion is lacking, it is necessary to remove the plasticizers from the surface with the appropriate solvents.

Packaging

All colours are available in 1 Kg. and 5 Kg. tins.



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