



## Paper and Board Fluorescent Inks (PABF)

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### PROPERTIES

PABF is a fluorescent, solvent based screen printing ink suitable for printing onto all types of paper and Polystyrene. It is formulated with high quality pigments, which give a relatively deep and vibrant colour, clearly visible even in relatively poor lighting conditions. These inks dry easily to give prints with excellent rub. PABF has excellent screen stability and self-solvency and is suitable for manual and automatic printing.

### INSTRUCTIONS FOR USE

#### Thinning and Cleaning

- Stir well before use.
- PABF inks should be thinned before printing with Thinner 2900. Inks should be thinned 10% for manual printing and 20% for automatic printing.
- Retarder 6032 can be used to make the ink dry more slowly when printing in a warm room or when using high mesh counts.
- Cleaner 2940 should be used to clean PABF from the screen. For heavy stains, Screensolve can be used. Please refer to the relevant P.I. Sheets for more information.

#### Printing

- PABF can be printed through any type of mesh, but for the best printing results it is recommended that monofilament P90-48 to P120-34 mesh is used.
- Coarser meshes are recommended for deeper colours and weather resistance.
- 1Kg of ink will print an area of 35-45 m<sup>2</sup> through No. P90-48 mesh.
- A snap distance of about 2-3 mm is required for a good release of the print from the screen.
- Apply Spray Way SW82 all over the print table to firmly hold the substrate in place during printing.
- Due to the dilution property of PABF inks, it is recommended that a few proof printings be done after short pauses during printing to prevent the mesh opening area from being clogged. For longer pauses (more than 10 minutes) it is advised that Instant Screen Opener (SW957) be sprayed on the stencil to ensure that no ink has blocked the open area of the screen.

Due to the wide range of substrates available, it is advisable that the ink be tested fully prior to printing.

#### Drying

PABF can be jet-dried at 70°C (158°F) within 10-15 seconds, when printed through a P90-48 mesh. This ink can also be dried at the normal room temperature within about 15 minutes, depending on the type of substrate and the ambient temperature.

For optimum adhesion to metal substrates, the print should be dried at 80-100°C (176-212°F) for 10 -15 minutes.

#### Co-Use With Other Inks

PABF inks can only be used with PAB inks. The fluorescent base colours can be added to improve the colour brightness of the PAB non-fluorescent ink.

PAB inks can be printed on top of PABF inks. To improve the gloss of PABF, overprint with one coat of UV Varnish UVPV092.

## LIGHT FASTNESS AND WEATHERING

The light fastness and weathering of PABF depends on the ink film thickness and its light exposure duration. The light and weather resistance of the ink will decrease after prolonged exposure to sunlight.

## VISIBILITY UNDER DIFFERENT LIGHT CONDITIONS

PABF inks will fluoresce brightly under UV light and is four times brighter than a non-fluorescent ink in normal daylight. It is visible even in a relatively poor light condition, which makes it suitable for applications such as the production of advertising boards which are to be displayed in the dark. PABF inks may appear to be different colours under different lighting conditions.

## SPRAYING AND BRUSHING

PABF inks can be thinned and used for spraying and brushing. However, the ink will appear more transparent if sprayed or brushed onto a white surface.

## COLOUR RANGE

The PABF ink range consists of six fluorescent colours.

### Fluorescent Colours

PABF381	Paper and Board Fluorescent Ink	Yellow
PABF482	Paper and Board Fluorescent Ink	Orange
PABF581	Paper and Board Fluorescent Ink	Red
PABF582	Paper and Board Fluorescent Ink	Pink
PABF681	Paper and Board Fluorescent Ink	Blue
PABF781	Paper and Board Fluorescent Ink	Green

## Solvents

2900	Thinner
6032	Retarder
2940	Cleaner

## STANDARD PACKING

PABF inks are available in 25Kg, 5Kg and 1Kg containers.  
The Solvents are available in 200 ltr, 20 ltr, 5 ltr and 1 ltr containers.

## COLOUR MATCHING SERVICE

CHAIYABOON BROTHERS COMPANY (CBC) offer a quality colour matching service. Colours can be matched to prints, wet ink samples or to PANTONE references. When placing an order, please include a sample of the substrate to be printed, along with any other relevant information, such as the type of mesh and squeegees that are to be used and the product resistance required. The minimum order for a colour match is 3Kg.

## STORAGE

PABF inks should be stored in a cool location not below 0°C/32°F or over 32°C/85°F and in a sealed container.

## SAFETY AND HANDLING

- PABF inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses.
- All PABF colours are non-toxic and comply with the following standards: EN71 Standard of the European Economic Community, the United Kingdom Toys (Safety) Regulation 1974, the DIN EN 71 Standard of Germany and French Toys Standard NF 551204, Title 16, Code of Federal Regulations of U.S.A.
- PABF inks are flammable with a flash point at 44°C/111°F.
- Whilst working with the ink, the consumption of food and drink, and smoking are not recommended.

Please consult the information on **the Safety and Handling of PABF inks** in the Chaiyaboon Material Safety Data Sheet.

## ENVIRONMENTAL INFORMATION

### **PABF Inks:**

- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.
- Do not contain heavy metals.

## TECHNICAL SERVICE AND INFORMATION

For further information or other relevant data, please do not hesitate to contact us. Chaiyaboon Brothers Company (CBC) has a team of well-trained personnel who are ready to give help and advise regarding product information and application.