



Untreated PP Gloss Ink (PPG)

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PROPERTIES

PPG is a solvent-based screen printing ink suitable for printing onto containers made from untreated or pretreated polypropylene. This ink system has a high gloss finish and excellent adhesion, giving it good rub-resistance.

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- PPG inks should be mixed with 5-10% Retarder 6032 before printing.
- Cleaner 2940 should be used to clean PPG from the screen. For heavy ink stains, Screensolve can be used. Please refer to the relevant P.I. Sheets for more information.

Printing

- PPG can be printed through any type of mesh, but for the best printing results it is recommended that monofilament P90-48 to P120-34 be used.
- PPG can be printed through a variety of solvent resistant stencils, such as Diazol Plus Ultra (U016), Diazol S (G133) and Diazol S Fast (G124).
- 1Kg of ink will print an area of 65-75 m² through a P120-34 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 wide range of substrates available, it is advisable that the ink be tested fully prior to printing.

Drying

PPG inks are dried through solvent evaporation. They can be jet-dried at 60°C(140°F) in 15-20 seconds. PPG can also be dried at the normal room temperature in about 15-20 minutes, depending on the ambient temperature. Optimum adhesion is achieved after drying at 70°C/160°F for 1-2 minutes.

Plastics

Always fully test the ink before beginning a production run, as there is often considerable variation in plastics from different manufacturers and even between different batches. The surface of some types of plastics are coated with lubricants, mold release agents or anti-static coatings and this may impair adhesion.

Product Resistance

PPG is resistant to the following products:

Substance Tested	Excellent	Good
Water Bleach	• •	
Washing Up Liquids Motor Oils	• •	
Hydraulic Oils Vegetable Oils	• •	

Compatibility tests should be carried out between the ink and the product to be packed before printing.

COLOUR RANGE

The PPG range consists of 31 colours: 12 CMS (Chaiyaboon Matching System) Base Colours, 15 Standard Colours and 4 Trichromatic Colours.

The CMS Colours are of highly vibrant shades and virtually any colour can be produced by colour-matching the CMS Base colours with Black, White and the Extender Base. The CMS colours can be used for direct printing, but are relatively transparent and are therefore not recommended for jobs that require a high level of opacity.

CMS Base Colours

The following CMS colours are suitable for direct printing or colour-matching:

PPG320	Untreated PP Gloss Ink	Light Yellow/CMS Yellow GS (T)
PPG327	Untreated PP Gloss Ink	Light Yellow/CMS Yellow GS
PPG340	Untreated PP Gloss Ink	Mid Chrome/CMS Yellow RS (T)
PPG347	Untreated PP Gloss Ink	Mid Chrome/CMS Yellow RS
PPG407	Untreated PP Gloss Ink	Deep Orange/CMS Orange
PPG500	Untreated PP Gloss Ink	Vermilion/CMS Red YS (T)
PPG507	Untreated PP Gloss Ink	Vermilion/CMS Red YS
PPG550	Untreated PP Gloss Ink	CMS Red
PPG560	Untreated PP Gloss Ink	CMS Magenta
PPG590	Untreated PP Gloss Ink	CMS Violet
PPG600	Untreated PP Gloss Ink	CMS Blue
PPG700	Untreated PP Gloss Ink	CMS Green

Standard Colours

The standard colours are available as follows:

PPG100	Untreated PP Gloss Ink	Black
PPG200	Untreated PP Gloss Ink	White
PPG330	Untreated PP Gloss Ink	Light Chrome (T)
PPG400	Untreated PP Gloss Ink	Light Orange (T)
PPG520	Untreated PP Gloss Ink	Scarlet (T)
PPG521	Untreated PP Gloss Ink	Red Crimson (T)
PPG522	Untreated PP Gloss Ink	Red (T)
PPG623	Untreated PP Gloss Ink	Mid Blue
PPG624	Untreated PP Gloss Ink	Royal Blue
PPG625	Untreated PP Gloss Ink	Ultramarine
PPG626	Untreated PP Gloss Ink	Monastal Blue
PPG640	Untreated PP Gloss Ink	Deep Blue
PPG642	Untreated PP Gloss Ink	Blue
PPG720	Untreated PP Gloss Ink	Brilliant Green (T)
PPG721	Untreated PP Gloss Ink	Bright Green (T)
PPG090	PPG Extender Base	Clear

Trichromatic Colours

PPG110	Untreated PP Gloss Ink	Trichromatic Black
PPG310	Untreated PP Gloss Ink	Trichromatic Yellow
PPG510	Untreated PP Gloss Ink	Trichromatic Magenta
PPG610	Untreated PP Gloss Ink	Trichromatic Cyan

Remarks:

(T)	Inks marked (T) contain heavy metals and are not suitable for printing children's products.
CMS	Chaiyaboon Matching Systems
RS	Red Shade
GS	Green Shade
YS	Yellow Shade

Solvents

6032	Retarder
2940	Cleaner

STANDARD PACKING

PPG inks are available in 30Kg, 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

PPG inks should be stored in a sealed container between 5-25°C.

SAFETY AND HANDLING

- PPG inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses.
- Inks marked with a (T) contain heavy metals and should not be used for printing items that might be chewed by children. They are also harmful to the unborn child.
- All other colours 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.
- 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 PPG inks*** in the Chaiyaboon Material Safety Data Sheet.

ENVIRONMENTAL INFORMATION

PPG Inks:

- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.

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.