



## Water Based Plastisol Ink (WPS)

Page 1/3

### PROPERTIES

WPS is water-based screen printing inks performing like plastisol inks. It is suitable for direct printing onto cotton, polyester and other synthetic fabrics.

- Very bright finishing with very dry handle.
- High fastness to aqueous washing, dry washing and rubbing.
- Excellent covering power.
- Excellent screen stability giving long print run without stencil blocking.
- Completely solvent, PVC and phthalate free.
- Reach Oeko-Tex 100 Standard.

### INSTRUCTIONS FOR USE

#### Thinning and Cleaning

- WPS Ink is appropriate for hand, flat-bed and carousel printings.
- It can be coloured with water based pigment concentrate (WC).
- Print with screen mesh P36-100 to P73-55 threads/cm.
- Cross-linking condition is at 150 °C for 5 minutes.
- Even though the inks already contain additives, up to 5% of WPS Catalyst (WPS073) can be added to improve the wet fastness.
- Up to 2% of WPS901 can be added to delay the drying and improve the multicolour wet-on-wet printing.
- WPS can be printed through a variety of water resistant stencils such as Diazol Tex (T326). To increase the stencil durability, the emulsions should be treated with PATLY prior to printing. Please refer to the relevant P.I. Sheets for more information.
- A snap distance of about 2-3 mm is required for a good release of the print from the screen.
- Apply Spray Way SW82 or Drystick Adhesive AH388X all over the print table to firmly hold the substrate in place during printing.
- For an extra ink film thickness, two coats of ink should be printed. The first coat should be fully cured before printing the second coat on top of it. This will also increase the gloss of the print.

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

## PROPERTIES AND APPLICATION FOR WATER BASED COLOUR CONCENTRATE

WATER BASED COLOUR CONCENTRATE can be mixed with WPS090 to create desired colour.  
 WATER BASED COLOUR CONCENTRATE are not suitable for direct printing.

WC100	WB colour Conc.	Black
WC200	WB colour Conc.	White
WC320	WB colour Conc.	CMS Yellow GS
WC340	WB colour Conc.	CMS Yellow RS
WC500	WB colour Conc.	CMS Red YS
WC550	WB colour Conc.	CMS Red
WC590	WB colour Conc.	CMS Violet
WC600	WB colour Conc.	CMS Blue
WC645	WB colour Conc.	Navy Blue
WC700	WB colour Conc.	CMS Green
WC720	WB colour Conc.	Brilliant Green
WC792	WB colour Conc.	Brown

### Standard Colours

The standard colours are available as follows:

WPS200	Poly Aqua Ink	White
WPS090	WPS Extender Base	Clear

**Remarks:**

RS	Red Shade
GS	Green Shade
YS	Yellow Shade

### STANDARD PACKING

WPS inks are available in 30Kg, 5Kg and 1Kg 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

WPS inks should be stored in a sealed container between 5-25°C. The storing area should not have highly humidity. Keep the out of reach of children.

### SAFETY AND HANDLING

- WPS inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses.
- WPS inks are free from any toxic, carcinogenic, mutagenic and reprotoxic chemicals.
- WPS inks are suitable for printing children’s products. All colours comply with the following standards: EN7 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.
- WPS inks do not have a flash point and are therefore exempt from the Highly Flammable Liquid Regulations.

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

## ENVIRONMENTAL INFORMATION

### WPS Inks:

- Do not contain formaldehyde, Ethoxylated alkyl Phenols, PVC, Phthalates or heavy metals.
- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.
- Do not have any volatile solvents (VOCs) and are therefore less harmful to the environment when compared with solvent-based products.
- Are free from aromatic hydrocarbons, known to have an adverse effect on to environment.

## 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.

