



Poly Aqua Ink (PAQ)

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PROPERTIES

Poly Aqua Inks are water-based screen printing inks suitable for direct printing onto polyester and other synthetic fabrics such as swimming trunks and non-waterproof nylon. When completely cured, the ink film has a soft, smooth feel and is extremely elastic making it resistant to cracking. The ink has a tack-free gloss finish and has excellent wash fastness. Suitable for manual or automatic printing.

PAQ inks are formulated to be safe for health and the environment.

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- PAQ inks do not need to be thinned before printing, but if the ink viscosity is too high, up to 5% clean water can be added printing.
- Clean the screen with water immediately after printing. Do not allow the ink to dry into the screen. For heavy ink stains, Screensolve or Thinner 2938 can be used.

Please refer to the relevant P.I. Sheets for more information.

Printing

- To ensure the optimum opacity and elasticity, PAQ should be printed through P36-90 to P77-55 mesh. During printing, scrape the ink over the printing image on the stencil to avoid blocking or clogging up small openings.
- PAQ 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.

Catalyst

If required the adhesion and water resistance of PAQ can be increased by mixed with 2-3% PAQ073 catalyst prior to printing. The mixed ink should be used the same day. Any remaining ink more than 24 hours old can be used, but should be re-catalysed.

Drying

PAQ inks will dry in about 10-15 minutes at room temperature, depending on the ambient temperature, humidity and the thickness of the ink film. PAQ will dry in about 3-5 minutes if a hot air dryer is used.

PROPERTIES AND APPLICATION FOR WATER BASED COLOUR CONCENTRATE

WATER BASED COLOUR CONCENTRATE can be mixed with PAQ090 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:

PAQ100	Poly Aqua Ink	Black
PAQ200	Poly Aqua Ink	White
PAQ330	Poly Aqua Ink	Light Chrome
PAQ340	Poly Aqua Ink	Mid Chrome
PAQ400	Poly Aqua Ink	Light Orange
PAQ520	Poly Aqua Ink	Scarlet
PAQ590	Poly Aqua Ink	Violet
PAQ600	Poly Aqua Ink	Blue
PAQ700	Poly Aqua Ink	Green
PAQ073	Catalyst for Poly Aqua Ink	Clear
PAQ090	MAQ Extender Base	Clear

Remarks:

RS	Red Shade
GS	Green Shade
YS	Yellow Shade

STANDARD PACKING

PAQ 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

PAQ 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

- PAQ inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses.
- PAQ inks are free from any toxic, carcinogenic, mutagenic and reprotoxic chemicals.
- PAQ inks are suitable for printing children's products. All 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.
- PAQ 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 PAQ inks** in the Chaiyaboon Material Safety Data Sheet.

ENVIRONMENTAL INFORMATION

PAQ 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.