



Multi Aqua Ink (MAQ)

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PROPERTIES

Multi Aqua Inks (MAQ) are water-based screen printing inks suitable for direct printing a variety of substrates such as PVC, PU, nylon, leather and artificial leather. Safe for the user and the environment. When completely cured, the ink film has a soft, smooth feel, is opaque and resistant to cracking. The ink is especially recommended for printing footwear. To enhance the adhesion, it is recommended that MAQ be mixed with the appropriate amount of catalyst (see section on **Catalyst**).

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- MAQ inks do not need to be thinned before printing, but if the ink viscosity is too high, 5% clean water can be added prior to 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

- MAQ should be printed through P36-90 to P90-48 mesh. During printing, keep the screen flooded to avoid blocking or clogging up small mesh openings.
- MAQ can be printed through a variety of water resistant stencils, such as Diazol Plus Ultra (U016) and 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.
- 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 give also increase the gloss of the print.

The adhesion to certain substrates can be increased by wiping the surface with Thinner 13019 prior to printing.

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

Catalyst

To enhance the adhesion, add 5-10% MAQ073 to any MAQ Ink. When catalysed, MAQ has a pot life of only 8-12 hours, so it is recommended only the amount required for printing is mixed.

Drying

MAQ Inks will dry in about 10-15 minutes at room temperature, depending on the Substrate, ambient temperature, humidity and the thickness of the ink film. MAQ will dry in about 3-5 minutes if a hot air dryer is used. For optimum colour brightness and wash resistance, the finished print should be cured at 60-80°C for 1-2 minutes.

These times and temperatures are a guideline only and the correct conditions should be ascertained before commencing a print run.

PROPERTIES AND APPLICATION FOR WATER BASED COLOUR CONCENTRATE

WATER BASED COLOUR CONCENTRATE can be mixed with TO090, TP090, RBS090, MAQ090 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

COLOUR RANGE

The MAQ range consists of 9 Standard Colour.

The extender base (MAQ090) can be used for mixing into any of the Standard Colour to give lower colour strength and opacity or can be mixed with WATER BASED COLOUR CONCENTRATE to create desired colour.

Standard Colours

The standard colours are available as follows:

MAQ100	Multi Aqua Ink	Black
MAQ200	Multi Aqua Ink	White
MAQ330	Multi Aqua Ink	Light Chrome
MAQ340	Multi Aqua Ink	Mid Chrome
MAQ400	Multi Aqua Ink	Light Orange
MAQ520	Multi Aqua Ink	Scarlet
MAQ590	Multi Aqua Ink	Violet
MAQ600	Multi Aqua Ink	Blue
MAQ700	Multi Aqua Ink	Green
MAQ073	Catalyst for Multi Aqua Ink	Clear
MAQ090	MAQ Extender Base	Clear

STANDARD PACKING

MAQ inks are available in 30Kg, 5Kg, 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

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

SAFETY AND HANDLING

- MAQ inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses.
- MAQ inks are free from any toxic, carcinogenic, mutagenic and reprotoxic chemicals.
- MAQ 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.
- MAQ 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 MAQ Inks*** in The Chaiyaboon Material Safety Data Sheet.

ENVIRONMENTAL INFORMATION

MAQ Inks:

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