



Texto Formol Free Inks (TOF)

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PROPERTIES

TOF water-based inks are suitable for printing light-coloured fabrics made wholly or partly of natural fibres such as cotton. TOF gives a transparent ink film after printing and has excellent wash resistance and long lasting colour brightness.

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- TOF inks do not need to be thinned before printing, but if the ink viscosity is too high, 5-10% clean water can be added immediately before printing. Make sure the water is thoroughly stirred in.
- 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.
- To improve colour brightness and ink film durability, thoroughly mix in 1-3% (w/w) CARITA (TOF073) before printing. It is **not** necessary to add CARITA to the Varnish TOF093.

Printing

- The mesh required depends on the detail of the print image and the ink absorption onto the printing fabrics. Suitable mesh for different types of printing are recommended below:
Towel Printing - P36-90 mesh.
T-shirt and Sportswear printing - P48-70 mesh.
Silk and refined fabric printing - P77-55 mesh.
- TOF 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, Diazol Tex can 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.

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

Drying

TOF inks will normally dry in about 10-15 minutes at room temperature, depending on the ambient temperature, humidity and the thickness of the ink film. TOF will dry in about 3-5 minutes if a hot air dryer is used. For optimum wash resistance, the finished print should be cured at 150°C for 3 minutes or by ironing on the reverse side of the substrate.

PROPERTIES AND APPLICATION FOR WATER BASED COLOUR CONCENTRATE

WATER BASED COLOUR CONCENTRATE can be mixed with TO090, TP090, RG096 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 TOF range consists of 13 Standard Colours and 4 Trichromatic Colours with a Varnish for water-based inks.

Standard Colours

The standard colours are available as follows:

TOF100	Texto Formol Free Ink	Black
TOF200	Texto Formol Free Ink	White
TOF330	Texto Formol Free Ink	Light Chrome
TOF340	Texto Formol Free Ink	Mid Chrome
TOF400	Texto Formol Free Ink	Light Orange
TOF520	Texto Formol Free Ink	Scarlet
TOF590	Texto Formol Free Ink	CMS Violet
TOF623	Texto Formol Free Ink	Mid Blue
TOF624	Texto Formol Free Ink	Royal Blue
TOF645	Texto Formol Free Ink	Navy Blue
TOF720	Texto Formol Free Ink	Brilliant Green
TOF721	Texto Formol Free Ink	Bright Green
TOF791	Texto Formol Free Ink	Light Brown
TOF073	Texto Formol Free Ink	Catalyst/Curing Agent
TOF090	TOF Extender Base	Clear

Trichromatic Colours

TOF110	Texto Formol Free Ink Trichromatic Ink	Trichromatic Black
TOF310	Texto Formol Free Ink Trichromatic Ink	Trichromatic Yellow
TOF510	Texto Formol Free Ink Trichromatic Ink	Trichromatic Magenta
TOF610	Texto Formol Free Ink Trichromatic Ink	Trichromatic Cyan

STANDARD PACKING

TOF inks are available in 50Kg, 25Kg, 3.5Kg, 1Kg, 500g and 200g 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

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

SAFETY AND HANDLING

TOF inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses. TOF inks are free from any toxic, carcinogenic, mutagenic and reprotoxic chemicals.

TOF 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.

TOF 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 TOF Inks*** in The Chaiyaboon Material Safety Data Sheet.

ENVIRONMENTAL INFORMATION

TOF Inks:

- Do not contain heavy metals.
- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.
- Are water-based with low amount of Thinner 2900 and are therefore less harmful to the environment when compared with solvent-based products.

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.