



TexCharge TC Discharge Ink System

TexCharge TC is a discharge ink system which produces exceptionally bright, soft handle prints on suitably dyed fabrics.

Curing Information

TexCharge TC inks must be heat cured to produce the discharge result. The curing schedule should be chosen to suit both the dischargeability and heat resistance of the fabric. Care must be taken when using infra-red dryers to ensure that prints are fully cured. Best results are achieved when prints are fully cured immediately after printing.

Under-curing may result in a white, powder-like deposit on the surface of the print over a period of days. The deposit will remove by machine washing.

It is essential that drying equipment is fitted with adequate fume extraction.

Fastness

Light fastness is good, being not less than 6 on the Blue Wool Scale and the inks have excellent wash fastness to I.S.O. Tests No. 1 (40°C), 2 (50°C) and 3 (60°C) and the United Kingdom Home Laundering Consultative Council Recommendation No. 3 (60°C).

The colours also have very good resistance to dry cleaning and direct ironing.

Garment Labelling

Due to the wide variations in printing and drying conditions, it is possible for residual chemicals both from TexCharge TC inks and from discharged dyestuffs to remain on the garment.

Although an independent study has shown little or no risk of skin irritation through contact, it is recommended that where children's garments are decorated they be labelled 'Wash Before Wearing' to prevent contact through sucking and chewing.

Trichromatic Printing

The range includes three trichromatic colours. With these colours, plus TC001 Black and TC021 White, true trichromatic prints on dark fabrics are possible. The following guidelines are recommended:

1. Positives should be prepared at 50 lines per inch (20 per cm) halftone count. Optimum colour density is achieved through 90T mesh although, depending on the fabric to be printed, finer halftones/mesh counts can also produce good results.
2. It is essential to print a white plate (shadow plate) for highlight areas. Flash curing is not required.
3. A colour sequence of White, Yellow, Cyan, Magenta, Black is recommended (it is not necessary to activate the Black).

Colour Range

TexCharge TC inks are available in 24 intermixable colours including the Seritone Matching System, 3 trichromatics and 5 fluorescent shades. TC025 Optic White does not share the same wet-on-wet print properties as the other colours. It should be printed last down. TC381 Extender Base is also available for mixing into any colours where a lower colour strength can be tolerated.

Main Characteristics

Drying

Must be heat cured. 160°C for 2-3 minutes.

Thinning

If necessary, thin with up to 5% water.

Wash-up

With water, if ink has not been allowed to dry into the screen. Dried ink must be washed out with Seriwash Universal Screen Wash.

Mesh

No. 34-43 monofilament for line colours.

No. 90 monofilament for trichromatic printing.

Stencil Type

Should be water resistant. For optimum stencil life treat with Sericure Stencil Waterproofing Agent.

Recommended: Dirasol 916, Dirasol 25 or Dirasol 125 with SZP65 Diazo Sensitiser

Coverage & Mesh No.

Up to 10-14 m²/kg. No. 43

Applications

T-shirts, sports wear, fashion wear.

Fabrics

100% Cotton. Only fabrics specifically prepared for discharge printing.

Colour Range

24 including an optic white, The Seritone Matching System, trichromatics and fluorescents.

Properties

Brilliant colours - even on dark garments.

Exceptionally soft handle.

Excellent wet-on-wet printability.

Excellent wash and dry clean resistance.

Ironable.

EN71-3: 1988 Approved Colour Range.

IMPORTANT:

Stir well before every use. If a fibre blend is used that requires more than one family of dyestuff, the possibility of incomplete discharge is increased. It is essential that all batches of fabric are pre-tested under production conditions to ensure that acceptable results and fastness are achieved.

TexCharge TC Activator

For convenience and accuracy, TexCharge TC Activator is supplied in pre-measured containers for both of the standard pack sizes of ink. Prior to use, TexCharge TC Activator must be mixed into TexCharge TC inks in the following proportions (working life - 8 hours):

TexCharge TC Ink	4.25 kg
TexCharge TC Activator	250 g
TexCharge TC Ink	0.85 kg
TexCharge TC Activator	50 g

The Activator should be thoroughly blended into the required colour in a well ventilated area.

The Seritone Matching System

The Seritone Matching System enables printers to readily and economically match a wide variety of special shades. It consists of 9 lead-free Seritone base colours selected for their cleanliness of tone, colour strength and suitability for intermixing. It is imperative that matched colours are assessed with activated ink on the actual fabric to be printed.

Special Matches

Matches can be supplied against prints, wet ink samples or to PANTONE® references, British Standard, 'HKS', 'Munsell', or 'Seritone' numbers. A sample of the substrate to be printed with the number and type of mesh to be used as well as other relevant data should be attached to orders.

Minimum quantity 5 ltrs.

Standard Colours

TexCharge TC:

TC001	Black
TC021	White
TC025	Optic White
TC057 (s)	Primrose
TC046 (s)	Golden Yellow
TC103 (s)	Orange
TC122 (s)	Scarlet
TC152	Brick Red
TC153 (s)	Carmine
TC154 (s)	Fuchsia
TC132 (s)	Violet
TC218 (s)	Azure
TC219	Oxford Blue
TC316 (s)	Sea Green
TC315	Emerald Green
TC343	Brown

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The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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TC053	Fluorescent Yellow L
TC105	Fluorescent Orange M
TC137	Fluorescent Red M
TC139	Fluorescent Magenta M
TC312	Fluorescent Green M
TC381	Extender Base

Available in 4.25 kg and 0.85 kg containers, except fluorescent colours which are available in 4.25 kg. only.

(s) = Seritone Base Colours

TexCharge TC Trichromatics

TC052	Trichromatic Yellow
TC135	Trichromatic Magenta
TC215	Trichromatic Cyan

Available in 0.85 kg containers.

TexCharge TC Activator

TC747	TC Activator
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Available in individual 50g or 250g containers.
Box of 12 x 50g containers (600g)
Box of 12 x 250g containers (3 kg)

Ancillary Products

During printing, fabrics have to be held by means of a pressure sensitive adhesive so that good definition is obtained. FlashFix, S-Fix Extra and T-Fix Extra Spray Adhesives or Drystick Extra are suitable for this purpose. (See relevant Product Information Sheets).

Safety and Handling

TexCharge TC:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals and is tested to comply to the EN71-3: 1988 Toy Safety Standard.
- Should be stored away from heat.
- Should be protected from frost.

Comprehensive information on the safety and handling of TexCharge TC screen inks is given in the appropriate Sericol Safety Data Sheets, available on request.

Environmental Information

TexCharge TC:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.

TexCharge TC Activator:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.
- Is free of any volatile solvent and is therefore beneficial to the environment when compared to solvent-based products.