

Textile Screen

Inks

TEXCHARGE TCI

Discharge Ink System

Texcharge TCI is a discharge ink system, which produces exceptionally bright, soft handle prints on suitably dyed fabrics

Features

- Brilliant colours - even on dark garments.
- Exceptionally soft handle.
- Excellent wet-on-wet printability.
- Excellent wash and dry clean resistance.
- Ironable.

TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN

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Curing Information

Texcharge TCI 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 infrared 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

Texcharge TCI passes the 5 wash cycle test (each cycle at 40°C for 90 minutes).

Garment Labelling

Due to the wide variations in printing and drying conditions, it is possible for residual chemicals both from Texicharge TCI 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.

Formaldehyde Levels:

TCI Inks does not contain/produce formaldehyde; however due to the use of activator TC 747 which is based on Zinc bis (hydroxymethanesulphinate) liberates formaldehyde and detect formaldehyde in the analytical testing

To achieve below 70-ppm formaldehyde levels, it is recommended to wash the prints before analytical testing.

Range

Texcharge TCI inks are available in 3 Types

1. TCI 381 Extender Base
2. TCI 382 Opaque Base
3. TCI 021 White

Available in 1.0 Kg, 5.0 Kg & 20.0 Kg containers.

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
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.

IMPORTANT:

Stir well before every use. If a fiber 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

Texcharge TC Activator must be mixed into Texcharge TCI Inks in the following proportions (working life-8 Hrs):

Texcharge TCI Ink	100.0 parts
TexCharge TC Activator	6.0 parts

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

TC Activator available 250g containers

Box of 12 x 250g containers (3 kg)

Colours

To produce different colours SQC concentrates can be used in TCI 381 extender base or for more opacity in TCI 382. Range of SQC concentrates are mentioned below. Matched colours are assessed with activated ink on actual fabric to be printed.

SQC Concentrates

SQC 001 Black

SQC 046 Golden Yellow

SQC 057 Primrose Yellow

SQC 103 Orange

SQC 122 Scarlet

SQC 124 Red

SQC 126 Pink

SQC 132 Violet

SQC 203 Blue

SQC 204 Blue R/S

SQC 205 Navy Blue

SQC 314 Green

TexCharge TC Activator

TC747 TC Activator

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. Flash Fix, S-Fix Extra and T-Fix Extra Spray Adhesives or Dry sticks Extra are suitable for this purpose. (See relevant Product Information Sheets).

Environmental Information

Texcharge TCI:

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.

Safety and Handling

Texcharge TCI:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals.
- Should be stored away from heat.
- Should be protected from frost.

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

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Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications 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 the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

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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