

Textile Screen Inks

SUNTEX STX

One Pack/Two- pack screen inks for Nylon & Synthetic fabrics

Features

- Good Opacity.
- Excellent Flexibility.
- Excellent Adhesion.
- Excellent wash fastness

Suntex STX screen inks are specially designed for printing onto nylon and synthetic fabrics, including the fabrics which are treated for water resistance.

Fabrics

Most grades of nylon, polyesters and other synthetic fabrics.

**TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN**

SERICOL
More than ink...Solutions.
FUJIFILM

Application

Suntex STX screen inks are specially for printing printing onto nylon and synthetic fabrics including many which have been treated for water resistance.

Colour Range

14 intermixable colours and 5 Fluorescent colours.

Colour Matches

Colour matches can be supplied as per requirement.

Standard Colours:

Suntex STX:

STX001	Black
STX020	Indian Red
STX021	White
STX030	Tinting White
STX041	Light Chrome (T)
STX043	Golden Yellow (T)
STX114	Orange (T)
STX120	Indian Red (T)
STX126	Magenta
STX127	Violet
STX201	Peacock Blue
STX206	Deep Blue
STX236	Rich Royal Blue
STX325	Green (T)
STX381	Extender Base

Suntex STX Fluorescent Colours:

STX077	Opaque Fluorescent Yellow
STX119	Opaque Fluorescent Orange
STX179	Opaque Fluorescent Red
STX180	Opaque Fluorescent Magenta
STX294	Opaque Fluorescent Green

(S) = Seritone base colours Available in 1 Kg

Additives

NB 386 NB Catalyst
Available in 1 Ltr and 0.2 Ltr containers

ZEI 811 Hold Out Additive
Available in 0.2 Kg container

ZEI 812 Thixotropic Additive
Available in 0.2 Kg container

ZEI 01 Flexibility Additive
Available in 1.0 Kg containers.

Thinners

TN-805 Nylo Thinner
TN-806 Nylo Retarder
TN-807 Nylo Extra Slow Reducer
ZEI-02 Retarder

Available in 1.0 Kg container.

Ancillary Products

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

NB Catalyst

Suntex STX can be used as a simple one-pack system but for more demanding requirements, NB386 NB Catalyst is available to improve adhesion and fastness properties and to decrease the possibility of adhesion deterioration over a period of time. Catalysed inks have a pot life of approximately 8 hours. Estimate the amount of ink required for a day's work and thoroughly mix the ink base and catalyst in the following ratio:

Suntex STX Ink	20 parts by weight
NB Catalyst	1 part by weight

Catalysed ink left over at the end of the printing run should be discarded.

IMPORTANT

Stir well before every use. Users should satisfy themselves of ink and fabric compatibility to ensure adhesion and fastness requirements are met, by testing under production conditions, prior to commencing a full production run.

Adhesion

Suntex STXI inks have good adhesion and flexibility on many fabrics, which have been treated for water resistance. Some fabrics may be finished or impregnated with particular waterproofing agents that may impair adhesion, even after considerable periods from printing.

For maximum adhesion to be obtained and maintained, it is recommended to catalyse the ink before use. Where lower opacity is tolerable, further improvements to adhesion can often be achieved by printing at a lower viscosity to aid penetration into the fabric.

In some cases, incompatibility between ink and fabric may lead to reduced tear resistance in the printed area - especially if uncatalysed ink is used on very lightweight fabrics..

Fastness

Uncatalysed inks have excellent wash fastness to I.S.O. Test No. 1 (40°C) and the United Kingdom Home Laundering Consultative Council

Recommendation Nos. 5.6 and 7 (40°C).

Catalysed inks have excellent wash fastness to I.S.O. Tests Nos. 3 (60°C) and 4 (95°C) as well as the United Kingdom Home Laundering Consultative Council Recommendation Nos. 2 and 3 (60°C) and 1 (95°C).

The fastness properties will vary depending on the fabric and whether catalysed or uncatalysed ink is used.

Work wear Emblems

Catalysed Suntex STX inks can be used to produce durable workwear transfers or badges capable of withstanding high temperature industrial wash processes. See Product Information sheet 'Sericol Textile Transfer Systems' for full details.

Sportswear Transfers:

Suntex STX inks, when backed up with adhesives (TJI452-Phthalate free or TA-458- PVC/Phthalate free) and dye blocking silvers, can be used to produce sportswear transfers on previously sublimated materials including football shirts, cycle wear etc. See product information sheet 'Sericol Textile Transfer Systems' for more details.

Thinning

For maximum opacity, print unthinned.

If necessary, thin with up to 10% TN-805 Nylo Thinner. For extreme hot shop conditions, add up to 10% TN-806 or TN-807 Retarder.

If Printing or Transferring on to a Stretchable fabric, add up to 10 to 15% of ZEI 02 Retarder, which will impart flexibility.

Mesh

For optimum opacity: Nos.62T.

For fine details: Nos. 90T.

Stencil Type

Most solvent resistant.

Recommend: Dirasol 915 / 916.

Stencil Type

Wash up with TN-639 Universal Screen wash.

Drying

Air dry: 15-30 minutes followed by racking overnight.

Convection oven, infrared or heated wicket conveyor dryer 100 degree C for two minutes.

Coverage

Up to 26m²/ltr. with 62T monofilament mesh

Pre-production Test:

Always test for adhesion and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches.

Important: End user must determine suitability of this product for the intended use prior to production.

Safety and Handling

Suntex STX Inks:

- ✍ Are formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- ✍ Should be stored away from heat.

NB Catalyst:

- ✍ Contains isocyanate and should not be used by persons suffering from bronchitis or asthmatic symptoms.

Comprehensive information on the safety and handling of Suntex STX screen inks and solvents is given in the appropriate Sericol Safety Data Sheet available upon request.

Environmental Information

Suntex STX inks catalyst:

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

Fujifilm Sericol India Pvt Ltd

- ✍ Has certification to the international Environmental Standard, ISO 14001
- ✍ Is committed to minimizing the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- ✍ Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- ✍ Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling

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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