

Nylotex NXI One/Two-pack Screen Inks

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

NB Catalyst

Nylotex NXI 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:

Nylotex NXI 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.

Adhesion

Nylotex NXI 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.

Addition of Universal Tinters

Universal Tinters (UTs) can be used to improve colour strength. However additions of greater than 5% can lead to a significant reduction in adhesion properties. All additions must be fully tested before commencing production.

Workwear Emblems

Catalysed Nylotex NXI 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

Nylotex NXI inks, when backed up with Multitran XM plastisol adhesives 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.

Main Characteristics

Drying

Air dry: 15-30 minutes followed by racking overnight.
Convection oven, infrared or heated wicket conveyor dryer:
100°C for two minutes.

Thinning & Wash-up

For maximum opacity, print unthinned.
If necessary, thin with up to 10% SS805 Nylo Thinner
For extreme hot shop conditions, add up to 10% SS806 Nylo Retarder.
Wash up with SS805 Nylo Thinner, Seriwash Universal Screenwash.

Mesh

For optimum opacity: Nos. 43-62T monofilament.
For fine detail: Nos. 77-100T monofilament.

Stencil Type

Most solvent resistant.
Recommend: Dirasol 916

Coverage & Mesh No.

Up to 26m²/ltr. No. 62

Fabrics

Most grades of nylon, polyesters and other synthetic fabrics.

Colour Range

14 intermixable colours.

Properties

Good Opacity. Excellent Flexibility. Excellent Wash Fastness.
Excellent Adhesion. Lead-free Pigmentation.

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.

Standard Colours

Nylotex NXI:

NXI 001	Black
NXI 009	Dense Black
NXI 021	White
NXI 042	Light Chrome
NXI 045	Yellow
NXI 043	Mid Chrome
NXI 064 (s)	Seritone Yellow GS
NXI 101	Light Orange
NXI 114 (s)	Seritone Orange
NXI 162	Light Red
NXI 134	Red
NXI 163 (s)	Seritone Red YS
NXI 164 (s)	Seritone Red BS
NXI 124	Deep Red
NXI 165 (s)	Seritone Magenta
NXI 154	Fuchsia
NXI 127	Deep Violet
NXI 166 (s)	Seritone Violet
NXI 227	Light Blue
NXI 212	Blue
NXI 230 (s)	Seritone Blue
NXI 320	Green
NXI 325 (s)	Seritone Green
NXI 381	Extender Base

(s) = Seritone base colours
Available in 1kg

Additives

NB386 NB Catalyst
Available in 1 ltr and 0.2 ltr containers

ZE 811 Hold Out Additive
Available in 0.2 kg containers

ZEI 01 Flexibility Additive
Available in 1.0 kg containers.

Solvents

SS 805 Nylo Thinner
SS 806 Nylo Retarder
SS 807 Nylo Extra Slow Reducer
Available in standard 1 kg containers.

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 Drystick Extra are suitable for this purpose. (See relevant Product Information Sheets).

Fujifilm Sericol India Pvt Limited

- Has certification to the International Environmental Standard, ISO 14001.
- Is committed to minimising 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.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

Nylotex NXI Inks:

- Are formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Are formulated free from lead and other heavy metals and is tested to comply with the EN71-3: 1995 Toy Safety Standard.
- 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 Nylotex NXI screen inks and solvents is given in the appropriate Sericol Safety Data Sheet, available upon request.

Environmental Information

Nylotex NXI Inks and NB Catalyst:

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

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 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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