



Nylotex NX One/Two-pack Screen Inks

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

NB Catalyst

Nylotex NX 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 NX 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 NX 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.

In some cases, incompatibility between ink and fabric may lead to reduced 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 NX inks can be used to produce durable workwear transfers or badges capable of withstanding high temperature industrial wash processes. See Product Information sheet 'Fujifilm Sericol Textile Transfer Systems' for full details.

Sportswear Transfers

Nylotex NX inks, when backed up with appropriate adhesives and dye blocking silvers, can be used to produce sportswear transfers on previously sublimated materials such as football shirts and cycle wear etc. See product information sheet 'Fujifilm Textile Transfer Systems' for more details.

Main Characteristics

Drying

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

Thinning

For maximum opacity, print unthinned. If necessary, thin with up to 10% ZE805 Nylo Thinner. For extreme hot shop conditions, thin with up to 10% ZE806 Nylo Retarder.

Wash up

Wash up with ZT639 Screen Wash Universal or Actisol Superjet Screen Spray.

Mesh

For optimum opacity: Monofilament 43-62
For fine detail: Monofilament 77-100

Stencil Type

Most solvent resistant direct stencil materials are suitable
Recommend: Dirasol 916

Coverage & Mesh No.

Up to 26m²/ltr. No. 62 Monofilament.

Fabrics

Most grades of nylon, polyesters and other synthetic fabrics.

Colour Range

15 intermixable colours.

Properties

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

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 full production runs.

Standard Colours

Nylotex NX

NX001	Black
NX021	White
NX045	Yellow
NX043	Mid Chrome
NX064	(s) Seritone Yellow GS
NX114	(s) Seritone Orange
NX134	Red
NX163	(s) Seritone Red YS
NX164	(s) Seritone Red BS
NX165	(s) Seritone Magenta
NX166	(s) Seritone Violet
NX212	Blue
NX230	(s) Seritone Blue
NX320	Green
NX325	(s) Seritone Green
NX381	Extender Base

(s) = Seritone base colours

Available in 1 ltr containers

NX381 - available in 5 ltr containers only.

Additives

NB386 NB Catalyst

Available in 1 ltr and 0.2 ltr containers.

ZE811 Hold Out Additive

Available in 0.2 kg containers.

Solvents

ZE805 Nylo Thinner

ZE806 Nylo Retarder

Available in standard 5 ltr containers.

Ancillary Products

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

Fujifilm Speciality Ink Systems 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 NX Inks:

- Are formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC.
- Are formulated free from lead and other heavy metals and are tested to comply to the EN71-3: 1995 Toy Safety Standard.
- For optimum shelf life, all products should be stored at moderate temperatures, between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the product.

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 NX screen inks and solvents is given in the appropriate Fujifilm Safety Data Sheet, available upon request.

Environmental Information

Nylotex NX 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 Fujifilm Speciality Ink Systems Limited and its associated companies, 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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