

IcoTex Nylo PU

One/Two packing Screen Printing Inks

Issue No. 008/2019

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

PU Catalyst

IcoTex Nylo PU inks can be used as a simple one-pack system but for more demanding requirements, **PU386 IcoTex Nylo Catalyst** is available to improve adhesion and fastness properties.

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:

IcoTex Nylo PU Ink	20 parts by weight
IcoTex Catalyst	1 part by weight

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

Adhesion

IcoTex Nylo PU inks have good adhesion and flexibility on many fabrics which have been treated for water resistance. Some fabrics may be finished or impregnated with certain waterproofing agents that may impair adhesion, even a considerable period after printing.

For maximum adhesion, it is recommended to catalyse the ink before use. Where lower opacity is tolerable, further improvements to adhesion may 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).

Catalysed inks have excellent wash fastness to I.S.O. Tests Nos. 3 (60°C) and 4 (95°C).

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

Workwear Emblems

Catalysed IcoTex Nylo PU inks can be used to produce durable workwear transfers or badges capable of withstanding high temperature industrial wash processes.

Sportswear Transfers

IcoTex Nylo PU inks, when backed up with appropriate adhesives and dye blocking silvers, can be used to produce sportswear transfers on previously sublimated materials including sports shirts, cycle wear etc.

Main Characteristics

Properties

- Good Opacity.
- Excellent Flexibility.
- Excellent Adhesion.
- Excellent wash Fastness.
- Lead-free Pigmentation.
- Comply with Okeo-Tex 100 and the latest RSL

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% **ZVC557HF** Standard Thinner
For extreme hot shop conditions, add up to 10% **ZV558** Retarder

Wash-up

Wash up with **ZTC639** Screen Wash.

Mesh

For optimum opacity: Nos. 43-62T monofilament.

For fine detail: Nos. 77-100T monofilament.

Stencil Type

Most solvent resistant.

Recommended:

Dirasol 915

Coverage & Mesh No.

Up to 26m²/Ltr. No. 62monofilament.

Colour Range

12 Intermixable Colours

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

IcoTex Nylo PU

One/Two packing Screen Printing Inks

Issue No. 008/2019

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.

Colour Range

IcoTex Nylo PU:

PU009	Dense Black
PU021	White
PU043	Yellow (RS)
PU064	Yellow (GS)
PU114	Orange
PU163	Red (YS)
PU164	Red (BS)
PU165	Magenta
PU166	Violet
PU230	Blue
PU325	Green
PU381	Mixing Base

Available in 5 Ltr containers

Additives:

PU386	Catalyst
--------------	----------

Available in 1 Ltr containers

Solvent:

ZVC557HF	Standard Thinner
ZV558	Retarder

Available in 5 Ltr containers

Safety and Handling

IcoTex Nylo PU:

- 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.

IcoTex Catalyst PU386:

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

IcoTex Nylo PU & IcoTex Catalyst:

- Have a flashpoint greater than 61°C and are not classified as a 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)

Comprehensive information on the safety and handling of IcoTex Nylo PU screen inks and solvents is given in the appropriate ICONINKS Safety Data Sheet, available upon request.

Environmental Information

IcoTex Nylo PU & IcoTex Catalyst:

- Does 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 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.

ICONINKS LIMITED

Hong Kong
ICONINKS LIMITED
 Unit B, 12/F., Reason Group Tower,
 No. 403 Castle Peak Road,
 Kwai Chung, N.T., Hong Kong
 Tel: +852 2426 6121
 Fax: +852 2420 4230
 Email: sales@hk.iconinks.com

China
ICONINKS (Nanjing) Co., Limited
 Rm. 916, Baoyuan Huafeng Economic. Hq. Building
 Xixiang Avenue, Xixiang Street
 Baoan Area, Shenzhen, P.R. China.
 Zip Code: 518102
 Tel: +86 755 2736 8101, +86 755 2736 8139
 Fax: +86 755 2736 8073
 Email: sales@iconinks.com

Australia
Icon 21
 30/4a Bachell Ave,
 Lidcombe NSW 2141,
 Sydney, Australia
 Tel: +61 0418 474908
 Mobile: +61 02 90296018
 Email: saeed@autofilm.com.au

Germany
ICONINKS GmbH
 Turnhallenweg 7a
 74858 Aglasterhausen
 Germany
 Tel: +49 (0) 62 62 912630
 Fax: +49 (0) 62 62 912096
 Email: info@nt.iconinks.com

Turkey
AKER SERİGRAFİ BOYALARI
 Cebeci Mahallesi 2. cebeci yolu
 No:7 -34265 Sultangazi-Istanbul
 Turkey
 Tel: +90 (0)21 2594 3094
 Email: info@akerserigraf.com
 www.akerserigraf.com

Customer Service Hotlines:

Asia: +852 2426 6121 China: + 86 755 2736 8101 Australia: +61 (0)418 474908 Germany: +49 (0) 62 62 912630

www.iconinks.com