

## IcoTex Nylo PU

One/Two packing Screen Printing Inks

Issue No. 002/2011

**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, **CAT386 IcoTech 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

**IcoTech 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.

### 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.

T-Fix Extra Spray Adhesives by Sericol Product are suitable for this purpose.

(See relevant Product Information Sheets)

### Main Characteristics

#### Properties

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

#### 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% **SE805 Nylo Thinner**

For extreme hot shop conditions, add up to 10% **SE806 Nylo Retarder**.

#### Wash-up

Wash up with **ZTC639 IcoPrep Thinner**

#### Mesh

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

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

#### Stencil Type

Most solvent resistant.

#### Recommended:

IcoPrep Emulsion **EM-DPGR6**

#### Coverage & Mesh No.

Up to 26m<sup>2</sup>/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.**

## Product Information

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### Colour Range

#### IcoTex Nylo PU:

PU001	Black
PU021	White
PU043	Yellow (Red Shade)/Mid Chrome
PU064	Yellow (Green Shade)
PU114	Orange
PU163	Red (Yellow Shade)
PU164	Red (Blue Shade)
PU165	Magenta
PU166	Violet
PU230	Blue
PU325	Green
PU381	Extender Base

Available in 5 Ltr containers

#### Additives:

CAT386 IcoTech Catalyst  
Available in 0.2 Ltr & 1 Ltr containers

#### Solvent:

SE805	Nylo Thinner
SE806	Nylo Slow Thinner
SV558	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 to the EN71-3: 1995 Toy Safety Standard.
- Should be stored away from heat.

#### IcoTech Catalyst CAT386:

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

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