



Coates Screen

# Product Data Sheet

## FLUORESCENT INKS TL

### APPLICATION

Fluorescent screen printing inks TL are suitable for printing onto paper, cardboard, polystyrene, PVC self-adhesive foils and various other thermoplastics. In any case pretests are recommended.

Fluorescent inks TL are not suitable for printing onto polyolefines (polyethylene and polypropylene), duroplastics, metals, glass, ceramics as well as coated substrates.

### CHARACTERISTICS

TL inks are very brilliant, quick drying screen printing inks for a variety of applications. Although the binding agents used for the production of fluorescent inks TL have a good weather resistance, TL inks are only intended for indoor or short-term outdoor use because they have a low light fastness. If exposed to intense sun light they are subject to fade within a short period of time. Application of a very thick layer fluorescent ink (use of a coarse fabric or printing twice) and overprinting with a clear containing light stabilisers (f.e. our clears for plastics) may help.

Please note that fluorescent inks may have different properties than screen printing inks with regular pigmentation, also in reference to adhesion, especially in multi-layer printing applications. Therefore again our advice to carry out pretests.

Utmost care is advised when overprinting fluorescent inks with a screen printing ink. There is the risk of bleeding if the screen printing ink used for overprinting contains solvents, which initiate dissolution of the fluorescent pigments contained in the fluorescent ink. This also applies to the production of double-sided contact adhesives.

Due to the necessary high pigmentation, air drying fluorescent inks result in a matt finish. If higher gloss is required or in order to prevent the prints getting dirty, over-printing with a clear is recommended.

### ADJUSTMENT FOR SCREEN PRINTING

Fluorescent inks TL are delivered in paste form. Depending on the fineness of fabric they are adjusted to a screenable consistency with the available thinners (addition approx. 10-15%, depending on printing requirements).

Due to different solvent resistance of the fluorescent pigments only thinners re-commended by the manufacturer should be used to dilute fluorescent inks. If other thinners, incompatible with the fluorescent ink are used it is possible that the screen printing ink thickens and cannot be used.

To adjust TL inks to a ready-to-print consistency use

**Thinner VD 50**  
**Retarder VZ 20**

for printing of fine details

In order to achieve a good fluorescent effect a thick ink layer is necessary. Recommended fabric: not more than 90 threads/cm (230 mesh) - or double print.

### DRYING

Screen printing inks TL are air drying. Therefore there is a quick initial drying at room temperature.

At temperatures of 20 °C (68 °F), depending on local circumstances a drying time is approx. 5 minutes. Being real Jet-drying inks, fluorescent screen printing inks TL only require a drying time approx. 30 to 60 sec. in a belt dryer at temperatures of approx. 50 °C (122 °F).

Drying time not only depends on the temperature, but also on the amount of air led to the print on the dryer. Solvent retention of this ink type is quite low so that even in higher stacks set off will not occur if suitable drying inks are used. When producing double-sided prints or multi-layer prints utmost care is essential. Maximum air exchange is necessary when drying the printed materials in the rack. If prints are in the rack without a constant exchange of air, solvents will accumulate, delaying the drying process of the screen printing ink.

#### **STENCILS**

All commercial stencils direct and indirect, may be used for processing of fluorescent inks TL.

#### **CLEANING OF STENCILS AND TOOLS**

Fluorescent screen printing inks TL can be removed from stencils and tools using universal cleaning agent URS.

#### **PACKING**

Screen printing inks TL are available in 1 liter, 5 liter and 30 liter containers.

#### **SHELF LIFE**

For information regarding shelf life please see tin label.

#### **CLASSIFICATION**

Read material safety data sheets prior to processing.

The material safety data sheets according to Regulation (EC) No. 1907/2006 (REACH) contain classification according to preparations directive (1999/45/EC) as well as instructions for precautions when processing, handling and storing as well as first aid.

#### **STANDARD SHADES**

Screen printing inks TL are available in 7 different fluorescent ink shades.

yellow	TL 90	red	TL 93
yellowish orange	TL 91	pink	TL 94
orange	TL 92	green	TL 95
		blue	TL 99

*The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job. - All former product data sheets are no longer valid. NOVEMBER 2011 – VERSION No. 4*

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