

STY-NT

PAD PRINTING INK

CHARACTERISTICS:

STY is a two-component ink with good opacity, glossy finish, good chemical and mechanical resistance, quick drying at room temperature, excellent adhesion on materials like aluminium and duroplast, low yellowing, very hard printed film.

This ink is formulated with resin free of phthalates, PVC, BPA.

APPLICATION:

Pretreated Polyolefines (PE, PP), Metals and silicon-free lacquered Surfaces, Wood, Paper, Coated Board.

USE AND DILUTION:

STY, being a two-components ink, should be used with the specific hardener C1 N in ratio of 17% (6: 1) (STY:C1N).

The pot life of the mixed ink is 7 to 8 hrs. approx., after which resistance and adhesion decrease even though the ink may still look liquid and workable. STY, once mixed with hardener C1 N, shall be diluted with diluent D2 in proportion of 10-20% max. In warm ambients and in presence of fine details or screened images (for ex.: 80/120 lines per cm²), the use of medium thinner M2 or retarder R2 in very small percentage is recommended, We would remind that an excessive dilution causes a loss of covering power, smudges and incomplete ink detachment from the pad, while a poor dilution may cause problems with drawing ink from the cliché engraving or obtaining a repetitive print quality and avoiding the "dripping" of the same ink.

DRYING AND HARDENING:

STY dries up following the solvent evaporation and the drying time at room temperature of 20^o 15 to 20 minutes. The drying process can be accelerated by using either ovens with circulating hot air about 50-60^o C or spot devices at high temperature (working with air or infrared rays) assembled directly on piece feeding system (ex.: rotary tables, conveyors, etc.). In the second case, the drying time lasts just a few minutes. The final hardening of the ink is obtained at least after 6 or 7 day

RESISTANCE:

After hardening is completed, STY has an excellent resistance to many chemical products, organic solvents, chemical products, cosmetics, cleansings and diluted acids, oils, outdoor resistance, scraping and corrosion.

The pigments' solidity rate is between 6 and 8 DIN on the WOOL scale.

SAFETY:

Read carefully ink safety data sheet before using. Safety data sheet are compiled in compliance with European Standard 91/155, concerning dangerous agents; you will find instructions relative to precautionary use, storage and first aid measures.

CLEANING:

To clean all parts coming in contact with ink, it is suitable thinner TAV, either for manual use and in parts cleaning automatic devices. For cleaning in ultrasound devices use the specific cleaner HTV2

STORAGE:

If stored at room temperature, STY has a length of about 3 years.

We recommend to store hardeners C1 and C1N in a cool and dry place and in sealed containers as it is not humidity-proof

Should they get dense, they cannot be used any more.

FLASH POINT:

Above 21 °C

RANGE OF COLOURS:

The reference for STY is the TOSH GLOSSY COLOURS TABLE Two Component Inks that includes a selection of 22 standard shades, plus 3 trichromy and 4 metallic. The metallic golden and silver colours can be prepared at the moment of use in the following mixing proportion:

Golden paste / transparent base BTY 1 : 3-4

Silver paste / transparent base BTY 1 : 4-5

All colour shades can be blended with one another. It is possible to have, on request, special colour samples. All the range of colours STY is classified NT (non toxic) in conformity with the European Regulation EN 71/Part 3 (safety toys), heavy metal free pigmentation and migration of certain elements, RohS and Reach compliance.

All pigments that compound the STY COLOURS TABLE below to NT series (no toxic), that means in compliance with European Standard EN 71/Part 3, heavy metals and migration of hurtful elements free.

GLOSS COLOURS FOR 2-COMPONENT INKS

A1X.STY 01/G	LEMON YELLOW
A1X.STY 02/G	MEDIUM YELLOW
A1X.STY 03/G	HOT YELLOW
A1X.STY 06/G	ORANGE
A1X.STY 08/G	OCHRE YELLOW
A1X.STY 11/R	LIGHT RED
A1X.STY 12/R	BRIGHT RED
A1X.STY 13/R	CARMIN RED
A1X.STY 16/R	PINK
A1X.STY 21/B	LIGHT BLUE
A1X.STY 22/B	MEDIUM BLUE
A1X.STY 23/B	ULTRA BLUE
A1X.STY 24/B	DARK BLUE
A1X.STY 25/B	TURQUOISE
A1X.STY 28/B	VIOLET
A1X.STY 31/V	LIGHT GREEN
A1X.STY 32/V	PINE GREEN
A1X.STY 33/V	BRIGHT GREEN
A1X.STY 41/M	LIGHT BROWN
A1X.STY 42/M	DARK BROWN
A1X.STY 00	WHITE
A1X.STY 100	BLACK

QUADRICROMY COLOURS

A1X.STY 60/GQ	PROCESS YELLOW
A1X.STY 61/RQ	PROCESS MAGENTA
A1X.STY 62/BQ	PROCESS CYAN

MX COLOURS

A1X.STY 101/MX	YELLOW
A1X.STY 102/MX	HOT YELLOW
A1X.STY 103/MX	ORANGE
A1X.STY 111/MX	RED
A1X.STY 112/MX	BRIGHT RED
A1X.STY 116/MX	MAGENTA
A1X.STY 122/MX	BLUE
A1X.STY 128/MX	VIOLET
A1X.STY 131/MX	GREEN
A1X.STY 00/MX	WHITE
A1X.STY 100/MX	BLACK

METALLIZED COLOURS

A1X.BOY 400	PALE GOLD
A1X.BOY 410	RICH GOLD
A1X.BOY 420	BRONZE
A1X.BAY 500	SILVER
A1X.BAY 510	LUX SILVER

FLUORESCENT COLOURS

A1X.STY 200/GF	FLUORESCENT YELLOW
A1X.STY 210/AF	FLUORESCENT ORANGE
A1X.STY 220/RF	FLUORESCENT RED
A1X.STY 230/PF	FLUORESCENT PINK
A1X.STY 240/VF	FLUORESCENT GREEN

TRASPARENTS

A1X.STY BTX	TRASPARENT BASE
A1X.STY PTX	CUT PASTE

STY is available in 1 and 5 kg. cans

ADDITIVES RANGE

For additional information about single products make reference to specific ADDITIVES Technical Data sheet.

NOTE

Information contained in this data sheet is given in absolutely good faith and based on our current knowledge. It should not be taken as binding, since the employment conditions of the products are out of our control. We do recommend to perform trial tests to verify the suitability of the product before starting a new production. The product utilization for the different application is exclusively under the customer responsibility.