

The **TPS** Ink range provides consistent quality on the widest range of paper and board substrates. Manufactured by Sun Chemical for **TPS**, our Premium Process Ink range offers an industry leading composition based on >70% non-fossil carbon, making it a genuinely sustainable option.

Premium Process Ink

Characteristics

- Vegetable oil based
- Duct fresh
- Mineral oil free
- Resistance to print scratching in fast work and turn
- Resistance to machine marking in high-speed production
- Complies with Toy regulations and CONEG (heavy metal regulation)
- Excellent setting and drying
- In-line and off-line varnishable (water-based coatings)
- Off-line varnishable (suitable UV coatings - test first)
- Runs with and without alcohol in the fount
- Suitable for all presses
- Perfect for books, magazines, commercial and publications, advertising and packaging
- Standard lightfastness, solvent and chemical resistance
- Complies with ISO 2846:1
- Meets the requirements of ISO 12647:2 when used with appropriate procedures
- Proven on perfecting presses, 8, 10 and 12 colour
- Can be used on perfecting presses equipped with coating units
- Suitable for all types of CTP lithographic plate

Fast Setting Process Ink

Fast Setting high productivity sheetfed offset inks for all 4-colour process printing. TPS Fast Setting Process Inks provide excellent print definition and ink trapping. These inks are specially formulated for fast work-and-turn in straight printing, for fast finishing and can be used on all types of sheetfed presses including 8,10 and 12 colour perfecting machines. Fast Setting Process inks can also be used in-line with water-based coatings or oil-based sealers where required. Complies with industrial standards including EN 71/3 (Toy regulations) and CONEG.

Characteristics

- Duct fresh
- Excellent lithographic performance
- Very good perfecting properties
- Vegetable oil based and mineral oil free
- Excellent ink trapping
- Drying by absorption and oxidation
- Very fast absorption and setting*
- Very good stack capability*
- Fast work and turn possible*
- Good gloss*
- Very good mechanical resistance*

**Dependent on substrate drying by absorption and oxidation*

Colour	Lightfastness	Alcohol	Solvent Mixture ISO 2836	Alkali ISO 2836
BLACK	8	-	-	+
CYAN	8	+	+	+
MAGENTA	5	+	+	-
YELLOW	5	+	+	+

Colour	Lightfastness ISO 2835	Alcohol ISO 2837	Solvent Mixture ISO 2837	Alkali ISO 2838
YELLOW	5	+	+	+
MAGENTA	5	+	+	-
CYAN	8	+	+	+
BLACK	8	-	-	+

Colour Standard Process Ink

Top quality sheetfed offset inks for 4-colour process printing ideally suited for printing according to ISO 12647:2 (Process Standard Offset). For use on all types of sheetfed presses including 8,10 and 12 colour multicolour perfecting machines. Exceptional lithographic stability and excellent dot reproduction. Suitable for publication, commercial and packaging printing. A second Cyan (B 9706 EXA 64) is offered if the colour specifications of FOGRA 27 L are to be met. The intensive Black S 9705 EXA 24 even exceeds the jetness required by the PSO standards. Complies with industrial standards including ISO 2846:1, EN 71/3 (Toy regulations) and CONEG.

Characteristics

- Duct fresh
- Excellent lithographic stability with all press speeds
- Excellent performance on multi-unit perfecting presses
- Excellent mechanical resistance*
- Based on vegetable oil technology
- Mineral oil free
- Very fast absorption and setting*
- Very good stack capability*
- Excellent dot reproduction
- Good gloss*
- Suitable for all types of CTP lithographic plate

*Dependent on substrate drying by absorption and oxidation

Colour	Lightfastness ISO 2835	Alcohol ISO 2837	Solvent Mixture ISO 2837	Alkali ISO 2838
YELLOW	5	+	+	+
MAGENTA	5	+	+	-
CYAN	8	+	+	+
BLACK	8	-	-	+

TPS Intense

TPS Intense is a top quality sheetfed offset ink series for 4-colour process printing. It allows printing on the widest range of paper and board with all types of sheetfed presses including 8, 10 and 12 multicolour perfecting presses. TPS Intense is suitable for publication and commercial printing and for packaging. This range is based on an innovative resin/oil combination providing robust lithographic stability and excellent mechanical resistances. TPS Intense is fast in colour and shows very low misting on modern high speed presses. On most substrates, fast setting and rapid drying allow quick work and turn or further processing of the print work (folding, cutting, stitching etc). TPS Intense can be coated in-line with water-based coatings or in-line/off-line with oil-based overprint varnishes to accelerate the print shop workflow. The application of UV coatings (in-line or off-line) might require the use of a primer. When printing without in-line coating, TPS does not recommend the use of IR dryers. TPS Intense complies with industrial colour standards including ISO 2846:1. ISO 12647:2 (offset standardisation) is supported.

Colour	Lightfastness ISO 12040	Alcohol ISO 2836	Solvent Mixture ISO 2836	Alkali ISO 2836
BLACK	8	-	-	+
CYAN	8	+	+	+
MAGENTA	5	+	+	-
YELLOW	5	+	+	+

TPS PANTONE® STANDARD INKS

TPS PANTONE® STANDARD is a ready-to-print offset base ink mixing system. Suitable for sheetfed printing of packaging, labels and any other spot colour work on fibre-based substrates. For use on all types of multicolour sheetfed offset presses up to 12 colours printing straight ahead or perfecting. Exceptional lithographic stability and excellent ink lay in solids and screened pictures. TPS PANTONE® STANDARD base inks are finished inks and comply with the colour specifications of Pantone Inc. TPS PANTONE® STANDARD is not suitable for sensitive food and tobacco packaging.

Characteristics

- Excellent lithographic stability at all press speeds
- Very good mechanical resistance*
- Excellent ink lay
- Drying by absorption and oxidation
- For all fibre-based substrates
- Suitable for all types of CTP lithographic plate
- Fast absorption and setting*
- Very good stack capability*
- Good dot reproduction
- Good gloss*
- For straight and perfecting printing
- Vegetable based
- Duct fresh
- Suitable for Laser Personalisation (test recommended first)

*Dependent on substrate

Special applications and precautions

TPS PANTONE® STANDARD is optimised for printing on absorbent substrates as paper and cardboard. Difficult substrates as chromocarton, PE-coated board do not allow the penetration of printing ink oil. To improve oxidative drying and adhesion on such substrates, 10-20% Foils Paste H 5068 should be added. The use of 1% Grafo drier is favourable. Adhesion and drying on difficult substrates cannot be precisely predicted. Product oriented testing is absolutely recommended before running a commercial print. For printing on plastics and foils, TPS offer special Foils inks and a wide range of UV curable inks.

Spot Colour Specification

With TPS PANTONE® STANDARD base inks all shades which are shown in the PANTONE® STANDARD Colour Guide can be easily matched. First guideline for matching these shades is the recipe printed in the colour guide. Depending on the colour (whiteness) and surface properties the same spot colour might appear differently when being printed on various substrates. Also please note that most colours change during the drying process of the ink. If the print is in-line varnished this effect is minimised.

These effects must be respected if a precise colour specification is agreed. Dark colours and those of high colour strength often show the 'bronzing effect' which is a colour impression varying with the observation angle. This is not a product failure and is influenced by the surface of the substrate. In-line varnishing or foil lamination eliminate the bronzing effect.

Colour	Lightfastness ISO 12040	Alcohol ISO 2836	Solvent Mixture ISO 2836	Alkali ISO 2836
PANTONE Yellow	5	+	+	+
PANTONE Yellow 012	5	+	+	+
PANTONE Orange 021	5	+	+	+
PANTONE Warm Red	3	+	-	-
PANTONE Red 032	5	+	-	+
PANTONE Rubine Red	5	+	+	-
PANTONE Rhodamine Red	4	-	-	-
PANTONE Purple	4	-	-	-
PANTONE Violet	4	-	-	-
PANTONE Blue 072	4	-	-	-
PANTONE Reflex Blue	4	-	-	+
PANTONE Process Blue	8	+	+	+
PANTONE Green	8	+	+	+
PANTONE Black	8	+	+	+
PANTONE Transparent White				

TPS METALLIC INKS

Full range of TPS PANTONE® METALLICS available in conventional and UV. (UV available in one and two pack).

TPS FLUORESCENT INKS

A full range of TPS PANTONE® FLUORESCENTS

Please note may require double hit to achieve PANTONE® strength.

Oil-based overprint varnishes enhance printed material with contrasting matt, satin and gloss effects and protect print surfaces at the same time.

TPS encompasses a comprehensive range of sophisticated high-gloss, satin and matt varnishes. They have been specifically developed for perfecting, in-line varnishing, conventional work and turn and for wet and dry offset.

All **TPS** oil-based overprint varnishes are suited for the most commonly applied finishing processes.

Fast Hard Drying Satin Sheetfed Sealer

A high solids, vegetable based, hard drying satin/neutral (pigmented) sheetfed sealer that has been specifically designed for overprinting and sealing printed papers and boards. It is particularly effective in preventing marking and scuffing during cutting, creasing and bindery operations and is recommended as a problem solving sealer.

Formulated with the use of advanced high molecular weight resin technology, this product possesses superior flow properties, which is critical in this specific application area.

Ideally suited for fast work-and-turn printing due to its fast drying and excellent rub and scuff resistance properties.

This product is quick setting, exhibits good lithographic and press stability and dries rapidly to produce a non-yellowing satin finish on the printed substrate.

Recommended for use when printing jobs that need to be backed up or finished quickly.

Matt Overprint Varnish

This is suitable for both dry offset and lithographic printing. This product can be applied either wet on wet or wet on dry, giving an excellent flat, matt finish with good rub resistance on the final print.

Specifically formulated for universal use on all multicolour and perfector presses. This high solids varnish dries to produce a non-yellowing, high rub resistant "matt" finish on the printed substrate.

Recommended for use where a flat, matt finish with good rub resistance have been specified.

High Gloss Sealer Varnish

A High Gloss Sealer varnish which is suitable for both dry offset and lithographic printing. This product can be applied either wet-on-wet or wet-on-dry, giving excellent gloss and rub resistance on the final print.

Specifically formulated for universal use on all multicolour and perfector presses. Ideally suited for enhancing the gloss and protection of printed cartons and papers.

This high solids varnish dries rapidly to produce a non-yellowing "high gloss" finish on the printed substrate.

Recommended for use where the high gloss and rub resistance have been specified.