

HYDROTEK

METALLIC PRINTING INK SERIES

HydroTek water-based inks are formulated for narrow-web flexo printing onto various substrates for the production of self-adhesive labels.
In addition to the standard ink series, a range of metallic inks is also available.

KEY FEATURES

- Excellent printability and press-stability characteristics
- Supplied press-ready at optimum printing viscosity
- High coverage and transfer on absorbent substrates
- Good scratch and rub resistance
- Suitable for all paper stocks

PRODUCT REFERENCES

REFERENCE	DESCRIPTION
40W8 0871	HYDROTEK PMS 871 GOLD
40W8 0872	HYDROTEK PMS 872 GOLD
40W8 0873	HYDROTEK PMS 873 GOLD
40W8 0874	HYDROTEK PMS 874 GOLD
40W8 0875	HYDROTEK PMS 875 GOLD
40W8 0876	HYDROTEK PMS 876 GOLD
40W8 0877	HYDROTEK PMS 877 SILVER

Other colours can be mixed upon request

PRINTING GUIDELINES

General

Shake the container well before use. Clean printing press thoroughly prior to printing.
Ensure underlying inks are dry before overprinting.
Synthetic substrates should be pre-treated and tested to ensure adequate ink adhesion.
Rub and other resistance properties should be checked dependent upon application.
Short production runs should be used to confirm that the desired results are achievable.
High ink film weights may enhance the colour effect but ensure that the ink is thoroughly dried.

Printing Plates

HydroTek inks are suitable for printing with most plate materials recommended for water-based inks. Consult with your plate supplier if in doubt.

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Anilox Rollers

Colour strength is highly dependant upon anilox roll configuration. A minimum cell volume of 5cm³/m² is recommended to ensure sufficient ink coverage.

Substrates

Papers – HydroTek inks are designed to be used on both uncoated and coated papers. Scuff, smudge, water and moisture resistance may vary dependant upon the ink filmweight, type of paper and drying conditions. Full adhesion, water and moisture resistance may take up to 24 hours to develop

Thermal Papers – We recommend that thorough testing is made to ensure suitability prior to commencing a full print run. Resistance properties may be enhanced by over-lacquering with one of our water-based or UV-curing varnishes. Please consult us for a product recommendation.

Plastics - Surface energy levels of between 38 – 42 dynes/cm are recommended; this may be achieved by pre-treatment using corona discharge, flame, plasma or other methods. Inline pre-treatment usually gives the best results. Production testing is always recommended to ensure adequate ink adhesion and resistance properties. Very high surface treatment levels may result in poor water resistance. Please consult us for recommendations for difficult substrates.

Hot-foil Stamping

HydroTek inks are generally suitable for hot-foil stamping. Results may vary dependant upon the ribbon and processing conditions.

Laser Overprinting

HydroTek inks are not suitable for laser overprinting.

Printing Speeds

The following print speeds are typical:

	Process Colours	Line Colours / Solids
Print Speed (m/min)	100 -150	80 - 150

Dryer temperatures should be at least 50°C with maximum airflow to ensure sufficient drying. Higher print speeds might be achievable on presses with combination IR and hot air dryers.

Resistance Properties

Optimum resistance properties normally do not develop for at least 24 hours. For enhanced chemical and other resistance properties we recommend over-lacquering with one of our water-based or UV-curing varnishes. Please consult us for a product recommendation.

Cleaning

Wet and partially dry HydroTek inks can be cleaned with *40W9 0004 Wash-Up Solution*.

40W9 0017 Superclean Wash is recommended to remove dry ink as well as deep cleaning of anilox rollers.

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Additives

Due to their different chemical nature, the standard additives used for water-based inks are not recommended for use in metallic inks.

Storage

Store at ambient temperatures in sealed containers. Protect from frost. Nominal shelf life is 6 months in correctly stored, unopened containers.

Packaging

Standard packaging is 5.0 kg plastic containers.

Health & Safety

Please refer to the product Safety Data Sheets.

Good industrial hygiene should always be practiced with these types of products. Use personal protection equipment as specified by the SDS.

Waste Disposal

Please refer to the SDS.

Organoleptic Properties (Taint and Odour)

If tested, the products may be suitable for certain low odour applications.

Migration

Paper, carton and plastic materials such as PE or PP normally do not offer a sufficient barrier to prevent migration of low molecular weight ink or varnish components. Glass, metal and some metallised laminates are usually more efficient as functional barriers. There should be no visible set-off of ink onto the food contact side of printed material. Packaging and processing should be designed such that there is no possibility for continuous ink contact with foodstuffs.

Food Compliance Declaration

Please refer to separate documentation. HydroTek inks are not suitable for direct food contact.

Within the European Union (EU) it is the responsibility of the manufacturer, importer or distributor of food contact materials and articles, or those who place them in contact with food prior to sale, to ensure that their products comply with the appropriate legislation.

We therefore strongly recommend that the final printed article is analysed by an accredited institute to ensure legal compliance before putting it into circulation.

Declaration of Composition

Please refer to separate documentation.

Please contact us for any questions regarding the suitability of this product for a particular application or compliance to a particular standard.

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