

EN-tin printing inks

Application

Tin printing inks of the EN 4000 series are designed for sheet printing on white base-coated or bare sheet metal. The inks are based on alkyd binders. They may be used on single-, two-colour- or multi colour printing presses with a final varnish coating applied wet-on-dry or wet-on-wet.

The printed products range from technical packages like oil-, beverage- and coffee containers to sterilization-proof, two-piece food packages as well as closures.

Recommended drying conditions are 10 minutes at 150 – 175 °C.

Special properties

- Very good printability in wet and dry offset.
- High rub and scuff resistance when dry.
- Resistant to sterilization.
- Resistant to deep drawing (doming)*.
- Varnishable (also wet-on-wet).

Stock inks

Process colours (similar to the European set)

Yellow **41 EN 4076 09** ("diaryl-free" pigmentation = **41 EN 4248 09**)

Red **42 EN 4180 09**

Blue **43 EN 4110 09**

Black **49 EN 4110 09**

Apart from these also basic colours for your own colour blending, as well as silver, gold, transparent white and opaque white inks are available from stock. Special shades can be ordered ready-mixed.

Printing auxiliaries

Ink reducer

Paste Reducer 10 T 9998 (addition 2 – 5 %)

Fount solution additive

2 % **HYDROFIX®-B 8013 39** in conjunction with 10 – 15 % isopropyl alcohol.

Wash-up

White spirit.

* Base coats on the basis of polyester binders may become brittle when being printed with conventional tin printing inks containing driers. This causes the formation of micro cracks during deep drawing and may lead to film flake-off during final sterilization. Especially for this field of application the ink series EN 5000 has been developed. Upon request process- and basic colours of a mixing system as well as special colours are available.
Drying conditions are 10 minutes at 180 – 185 °C.

Labelling

German Hazardous Substances Ordinance (GefStoffV): none

German Flammable Liquids Ordinance (VbF): none

Safety data sheet available on request.

How supplied

2.5-kg vacuum tin

4.0-kg vacuum tin (Opaque White)

Larger containers available upon request.

Further information and documentation

MK 18 – Colour chart “Inks for tin printing”

TI 10.2.11 E – Tin printing inks on polyester ink vehicle base

MB 66 – Folder “UV curing in tin printing”

Contact addresses for advice and further information: www.hubergroup.de

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