

IcoContainer CO

UV ink series for PP/PE bottles and containers

Issue No. 008/2019

The IcoContainer CO series is recommend for printing onto pre-treated PP and PP bottles and containers, with a high level of chemical resistance.

Product Resistance

IsoContainer CO inks have improved chemical and solvent resistance properties than conventional inks and will resist attack by most products likely to be packed into the container. Resistance of prints immediately after cure is excellent, but for best results it is advisable to allow six hours after curing to achieve optimum resistance.

The following table shows the general resistance properties of Container inks, after printing through a No. 180 monofilament screen onto pre-treated polyethylene

The resistance properties were assessed after 24 hours' immersion in each product.

	Excellent	Good
Aftershave Lotions	•	
Alcohol	•	
Alkalis (up to 10%)		•
Antifreeze	•	
Battery Acid		•
Bleach		•
Brake Fluid		•
Cosmetics	•	
Detergents	•	
Household Cleaners	•	
Motor Oil	•	
Petrol		•
Skin Care Products	•	
Solvents		•

Colour Matching

Colours can be supplied against prints, wet ink samples or to PANTONE®* references, British Standard, 'HKS', or 'Munsell' numbers. A sample of the substrate to be printed, with the number and type of mesh to be used, should be attached to orders.

The product resistance required of special matches may be very important and it is necessary that full details are supplied of the process to be followed and the product to be packed into the container.

Minimum quantity 5 kg.

*PANTONE® is the property of Pantone, Inc

Main Characteristics

Finish

High Gloss

Properties

Fast cure, unlimited screen stability.

Excellent physical and chemical resistance. Substantially higher coverage than solvent-based inks.

Low odour and negligible atmospheric pollution.

UV Curing

Hourly output of approximately 4000 containers of 60mm diameter may be expected in units with suitable medium pressure mercury UV lamps.

Cure speed is dependent on film thickness, colour and opacity coupled with lamp condition and type.

Thinning & Wash-up

ZE802 can be used for minor adjustments or, warming ink to a maximum of 38-40 °C will reduce viscosity.

Over-thinning will reduce colour strength.

Wash up with ZTC639

Mesh

Nos. 150-180 monofilament.

Stencil Type

All solvent resistant stencils are suitable.

Recommend:

18 micron capillary film

Emulsion **Dirasol 22, Dirasol 32 and Dirasol 915**

Coverage & Mesh No.

80-90 m²/kg. No. 180

Applications

Pre-treated polyethylene and polypropylene bottles and containers.

Colour Range

12 including Base Matching System.

Curing & Post Curing

Overprinting should be conducted in line on multi-colour machines as any delay in overprinting may result in poor intercoat adhesion.

The chemical reaction initiated by UV radiation will continue after the dried prints emerge from the dryer. It is important that the adhesion of the first colour down, and all subsequent overprint colours, is assessed at regular intervals.

IMPORTANT: Stir well before every use. Always test application fully before beginning production run as supposedly similar plastics can vary between different manufacturers and even between different batches. Certain plastics may be impregnated with lubricants or anti-static additives which, like migrating plasticisers, may impair adhesion even a considerable period after printing.

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Colour Range

IcoContainer CO inks are available in 12 intermixable colours with Pantone Matching System.

C0001	Black
C0021	White
C0064	Yellow (GS)
C0066	Yellow (RS)
C0114	Orange
C0121	Red (YS)
C0127	Violet
C0164	Red (BS)
C0165	Magenta
C0230	Blue
C0325	Green
C0381	Mixing Base

ZE637 Thinner

Available in 5KG pack size.

Storage

Containers should be tightly closed immediately after use. At the end of long printing runs surplus ink from the screen should be disposed of.

Containers should not be stored in direct sunlight or near warm pipes and should be kept away from peroxides. In the interest of maximum shelf life, storage temperatures should be between 10°C and 25°C. When stored in a cool environment the inks are expected to have a shelf life of approximately 12 months from the date of manufacture.

Safety and Handling

IcoContainer CO:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Does not have a flashpoint and is therefore exempt from the Highly Flammable Liquid Regulations.
- Is formulated free from lead and other heavy metals and therefore should comply with the EN71-3:2013 Toy Safety Standard.
- Should be stored away from heat.

Comprehensive information on the safety and handling of IcoContainer CO inks and solvents is given in the MSDS, available on request.

Environmental Information

IcoContainer CO:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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