

UV Sign UYA

Trichromatic Screen inks for Polyolefin materials

Issue No. 011/2014

IcoPrint UVSign UYA was developed for high speed printing onto common Point of Purchase / Point of Sale, display and advertising substrates, with the ability to gain excellent adhesion to even the most difficult untreated Polyolefin synthetic materials. UVSign UYA is especially suitable to synthetic papers including Yupo, Synteape, and KT Board.

Product Properties

- Strong Chromatic Colours with good print definition
- Excellent adhesion to even the most difficult materials
- Good level of Flexibility
- Outdoor weathering resistant for up to 12 months
- Infinite Screen Stability

Chemical Resistance

UVSign UYA, when fully cured has excellent product resistance properties, and will resist most common household chemicals, as well as many solvents and other cleaning chemicals.

Curing of Inks

UVSign UYA is a conventional UV curing ink. A cure level of around 150 mj/cm² is recommended to achieve full cure. Actual curing rates depend on a number of factors, including ink film thickness, opacity, the number and types of lamps used (including lamp emission spectrum, power and efficiency) and the stock being printed. Care should be taken to ensure that each colour is cured correctly to achieve optimum adhesion to substrate and overprint adhesion of subsequent colours.

Pre Production Test Requirements

Certain plastics may be impregnated with lubricants which, like plasticiser migration, may impair adhesion even a considerable period after printing. This can usually be overcome by wiping the surface with white spirit before printing.

Some plastics can become brittle when printed, possibly to the point of shattering, often after several weeks. It is essential to check compatibility between ink and plastic to guard against this

Outdoor Use

UVSign UYA inks have been tested for resistance to weathering in a Xenon bulb weatherometer to SAE J1960 standards. Maximum expected outdoor life is for up to 12 months, when printed on suitably resistant materials designed for external exposure, and the prints are exposed in temperate climatic conditions.

Main Characteristics

Colour Range

12 Line Colours, including 9 mixing base colours
Black, White, Extender Base
4 Trichromatic Colours, with Trich Extender base

Curing

Ensure sufficient through cure – recommend using a double lamp system with at least 150mj/cm² power. Please note that this series is not suitable to be used on Flash Curing Equipment.

Thinning

Inks are supplied press ready
Small amounts (1-5%) of ZX818 UV thinner can be added.

Wash-up

Screens can be cleaned with **ZTC639 IcoPrep Thinner**

Mesh

150.34 PW is recommended for general use.
Other meshes from 140:31 – 180:27 are also suitable.

Stencil Type

Most direct stencil emulsion materials designed for UV inks are suitable.

Recommended:

Dirasol 915, Dirasol 916 UV resistant graphic emulsions.

Coverage & Mesh No.

No. 150.34 PW Mesh. - Up to 90 m²/kg

Co-use with other inks

We do not recommend using this product with other ink systems

IMPORTANT: Stir well before every use. Always test application fully before beginning production run as there is often considerable variance in substrates from different manufacturers and even between different batches.

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Colour Range

Trichromatic Inks

UYA004	Trichromatic Black
UYA052	Trichromatic Yellow
UYA135	Trichromatic Magenta
UYA215	Trichromatic Cyan
UYA396	Extender Base (for reducing colour density as needed)

Available in 5KG pack sizes.

UYA001	Black
UYA064	Yellow (Green Shade)
UYA066	Yellow (Red Shade)
UYA114	Orange
UYA121	Red (Yellow Shade)
UYA127	Violet
UYA164	Red (Blue Shade)
UYA165	Magenta
UYA230	Blue
UYA325	Green

Thinners/Additives

ZE818 UV Thinner

Available in 5KG containers

ZE824 Curing Additive

Available in 1KG containers.

Storage

Containers should be tightly closed immediately after use.

IcoPrint inks and reducers should not be stored in direct sunlight or near sources of heat and should be kept away from peroxides.

For maximum shelf-life, storage should be between 10°C and 25°C. Stored in a cool environment the inks have a shelf-life of approximately 12 months from the date of manufacture.

Safety and Handling

UVSign UYA inks are formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or repro-toxic according to Directive 67/548/EC.

UYA inks have a flashpoint greater than 61°C and are not classified as a 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). Comprehensive information on safety and handling is given in the MSDS for this product, available on request.

Environmental Information

UVSign UYA inks do not contain ozone-depleting chemicals as described in the Montreal Convention.

This product is formulated free from aromatic hydrocarbons. This product is also free of any volatile solvent and has less impact on the environment, when compared with traditional solvent-based products.

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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