



TECHNICAL DATA SHEET

UVAROLID® UK Ink Series

Ink Series for UV Tube Printing Suitable for Overvarnishing

CHARACTERISTICS

With the UVAROLID® UK Ink Series we present a series, especially for UV container decoration (also referred to as dry-offset or indirect letterpress).

The ink series is suitable for overvarnishing and designed for plastic tubes, plastic capsules and other preformed containers which are overvarnished. It has excellent resistances against different fillings.

TECHNICAL DATA

Drying/Curing	UV-Hg (Mercury Vapour)
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Substrate	Film
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Printing Process	Indirect Letterpress
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Surface Properties	Glossy - Adhesion Optimized
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Further Processing	Overvarnishing
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Application	Preformed Tubes - Cups / Buckets
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End Application	Non-Food
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Market	Plastic Containers
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Available Systems	PANTONE® Base Colours - Z Base Colours
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UVAROLID UK Farbserie

01/2024-UVAROLID UK Farbserie-22

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Mixing Lists Basis

Z Base Colours

SUBSTRATES

Printable Containers

The series is suitable for injected, extruded and blow-molded preformed containers made from common substrates such as PE, PP, PS, ABS, PET, PVC.

PACKING UNITS

+ 1 kg plastic can (black)

TECHNICAL SERVICE CENTER

Kindly note that we are ready at any time for competent technical application support on your site. Please contact our technical service centre for printing inks:

Ink-Service@Zeller-Gmelin.de

Tel: +49 7161 802-279

COVERING WHITES

UVAROLID® UK types of opaque white are characterized by their high opacity at low ink lay down. All types of opaque white are resistant against spirit, solvent mixture and alkali (according to DIN 16524).

UVAROLID® UK-X55015

Standard opaque white

UVAROLID® UK-X55020

Mixing opaque white with maximum pigmentation. Only for mixing, addition max. 75%. Not printable pure

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UVAROLID® UK-X55030

Low-yellowing opaque white

ADDITIVES

UVALUX® U0010 UV Reducer

Addition max. 5%

Reduces the viscosity

UVALUX® U0088 UV Printing Paste

Addition max. 10%

Reduces the tack without reducing the viscosity significantly.

U0947 UV Rub Protection Paste

Addition max. 3%

Reduces internal abrasion during stacking

UVAROLID® UK-X60001 Transparent White

Addition unlimited

Highly transparent, for reducing colour strength, tack and viscosity remain at a comparable level.

W963 UV Wash Up with Lemon Smell

Suitable for cleaning inking systems, sleeves, plates, blankets, etc.

Not approved for automatic washing units.

Before starting printing, the washing agent must be completely dried off, otherwise the printing behaviour may be impaired.

UV Roller Cleaning Paste UV866

Only for rubbing into ink rollers, not suitable as ink additive

For cleaning of the ink rollers in offset and letterpress printing units from UV inks. Distribute paste with spatula on the oscillating rollers, let machine run without printing for several minutes, scrape off and wash again.

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Remark:

The addition of any additive might change the overall characteristics of the printing ink.

STORAGE

Optimal storage conditions:

The optimal storage temperature is 20°C. Higher storage temperatures reduce the shelf-life.

Remarks:

- protect from frost
- store in a cool and dark place
- stir or shake well before use
- can should be closed immediately after usage

Warranty:

If the products are stored properly, we warranty the product performance for a shelf life of 12 months from the date of delivery. Deviating from this, we warranty only 6 months product performance for all deliveries in large containers over 10kg filling quantity.

SERVICE

Complete PANTONE[®] mixing recommendations. Ink formulation systems, mixing systems and dispensing systems are possible in different expansion levels.

Base ink basis for mixing recommendations:

- UVAROLID[®] UK-Z... high intensity monopigmented base inks

PRACTICE REMARKS

Printing Materials

We recommend using ester and ketone resistant rollers (EPDM-material). The inking roller, rubber blanket and printing plate have to be resistant against UV-inks and UV-detergents (see manufacturers instructions).

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Information about Light Resistance

All light resistances are indicated according to the blue wool scale (BWS) and are based on the product specifications of our pigment suppliers. Light resistance can change when mixing inks and when printing halftone. Depending on the mixing ratio and on the fineness of the screen the light resistance can be lower than the pure solid colour.

Preliminary Tests Recommended

Before beginning to print we recommend practice oriented pretests on your substrate, in order to test the desired characteristics of the finished product.

Further Processing of Metallic Inks

Metal pigments can have an influence on further processing. For example problems may occur with overvarnishing, even if the metal pigments are mixed into overprintable inks. Also finishing such as thermal transfer printing, laminating or hotfoiling can be influenced. Please note that inks with metal pigments may have a lower scuff-resistance than standard inks, depending on ink lay-down, substrate and press speed.

MARKING

Marking according to EC legislation:

Our inks are classified and marked according to EC legislation and the German "Gefahrstoffverordnung" (German dangerous substances regulation).

The material safety data sheet (MSDS) is available on request.

PRODUCT DESIGNATION

Zeller+Gmelin Base Inks:

UK-Z... high intensity monopigmented base inks

UK-Z...S high intensity monopigmented base inks, high light resistance

PANTONE®:

UK-P... PANTONE® base inks

UK-P...S PANTONE® base inks, high light resistance

UK-C... PANTONE® mixed shades "coated"

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Special Colours: UK-X...

Covering White: UK-X55...

Transparent White: UK-X60001

PANTONE® Metallic print ready one-component base inks:

UK-P871 PANTONE® Gold (corresponds approximately to richgold)

UK-P872 PANTONE® Gold (corresponds approximately to richpalegold)

UK-P873 PANTONE® Gold

UK-P874 PANTONE® Gold (corresponds approximately to palegold)

UK-P875 PANTONE® Gold

UK-P876 PANTONE® Gold

UK-P877 PANTONE® Silver

MONOPIGMENTED BASE INKS

For ink mixing we recommend our mono-pigmented base inks. It is a print-ready system, with maximum colour strength. These base inks contain only one pigment respectively.

Advantages:

- Ink formulations are better reproducible
- Higher production security
- The higher colour-intensity makes printing with reduced ink lay-down possible
- Reduced dot gain
- More flexibility when adjusting colour strength for solids or fine texts
- Mixing recommendations are available for all PANTONE® mixed shades
- Ink dispensing, mixing and measuring systems with different expansion levels available

Product designation of the monopigmented base inks:

- UVAROLID® UK-Z... high intensity monopigmented base inks

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MISCELLANEOUS

Intense Black Types for the Use as Spotink

UVAROLID® UK-X40001

Standard spotink black

UVAROLID® UK-X40003

Same pigmentation as UVAROLID® UK-X40001 but with higher reactivity

UVAROLID® UK-X40015

Very brilliant and deep intense black

RESISTANCE PROPERTIES

Colour Name	Article Number	Light Resistance	Spirit Resistance	Solvent Resistance	Alkali Resistance
PANTONE® Base Colours					
Yellow	UK-P100	5 BWS	+	+	+
Yellow 012	UK-P101	5 BWS	+	+	+
Orange 021	UK-P150	5 BWS	+	+	+
Warm Red	UK-P200	4 BWS	+	+	+
Red 032	UK-P201	4 BWS	+	+	+
Rubine Red	UK-P202	5 - 6 BWS	+	+	+
Rhodamine Red	UK-P203	5 BWS	+	+	+
Purple	UK-P250	6 - 7 BWS	+	+	+
Violet	UK-P251	6 - 7 BWS	+	+	+
Reflex Blue	UK-P300	5 BWS	+	+	+
Process Blue	UK-P301	8 BWS	+	+	+
Green	UK-P350	8 BWS	+	+	+
Blue 072	UK-P302	6 - 7 BWS	+	+	+

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PANTONE® Base Colours (High Light Resistance)

Yellow	UK-P100S	6 - 7 BWS	+	+	+
Yellow 012	UK-P101S	6 - 7 BWS	+	+	+
Orange 021	UK-P150S	7 BWS	+	+	+
Warm Red	UK-P200S	6 - 7 BWS	+	+	+
Red 032	UK-P201S	6 - 7 BWS	+	+	+
Rubine Red	UK-P202S	6 - 7 BWS	+	+	+
Purple	UK-P250S	6 - 7 BWS	+	+	+
Rhodamine Red	UK-P203S	6 - 7 BWS	+	+	+
Violet	UK-P251S	6 - 7 BWS	+	+	+
Reflex Blue	UK-P300S	6 - 7 BWS	+	+	+
Blue 072	UK-P302S	6 - 7 BWS	+	+	+
Process Blue	UK-P301S	8 BWS	+	+	+
Green	UK-P350S	8 BWS	+	+	+

Z Base Colours

Yellow	UK-Z2100	6 - 7 BWS	+	+	+
Yellow	UK-Z2101	5 BWS	+	+	+
Orange	UK-Z2150	5 BWS	+	+	+
Red	UK-Z2200	4 BWS	+	+	+
Red	UK-Z2202	5 - 6 BWS	+	+	+
Red	UK-Z2201	5 - 6 BWS	+	+	+
Red	UK-Z2203	6 - 7 BWS	+	+	+
Violet	UK-Z2250	6 - 7 BWS	+	+	+
Blue	UK-Z2300	8 BWS	+	+	+
Green	UK-Z2350	8 BWS	+	+	+
Black	UK-Z2400	8 BWS	+	+	+

Z Base Colours (High Light Resistance)

Yellow	UK-Z2100S	6 - 7 BWS	+	+	+
Orange	UK-Z2150S	7 BWS	+	+	+
Yellow	UK-Z2101S	6 - 7 BWS	+	+	+

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Red	UK-Z2201S	6 BWS	+	+	+
Red	UK-Z2200S	6 BWS	+	+	+
Red	UK-Z2202S	6 - 7 BWS	+	+	+
Red	UK-Z2203S	6 - 7 BWS	+	+	+
Violet	UK-Z2250S	6 - 7 BWS	+	+	+
Blue	UK-Z2300S	8 BWS	+	+	+
Green	UK-Z2350S	8 BWS	+	+	+
Black	UK-Z2400S	8 BWS	+	+	+

REMARKS ON MIGRATION AND CONFORMITY

The following remarks are valid for the production of food packaging which complies with the regulations in the European Union. We are not able to provide statements concerning food packaging legislation of countries outside the EU.

Regulation (EC) No 1935/2004 requires that the person responsible for "placing on the market" of a packaging article must have an appropriate documentation available to demonstrate the compliance with the rules related to food processing and distribution.

Not only the used materials influence food-legislation related properties of a packaging. The production process of the packaging has a significant impact as well.

Therefore, we recommend our customers to send their finished products to a recognized analytical institute for examination and certification. That way compliance with legal requirements can be proven.

The transfer of substances from the packing into the filling is called migration. The following production parameters have a significant influence on the degree of migration:

- correct processing, especially the complete through-cure of the ink film
- type of substrate and substrate thickness (sufficient barrier properties of the substrate)
- prevention of a direct contact of the printing ink with the food
- selection of printing inks which are suitable for FCM applications

The UVAROLID® UK Ink Series has no special FCM formulation. Therefore we recommend for food packaging FCM ink series and lacquers which are available for many applications.

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You should ensure by migration analysis that no migration through the entire packaging material takes place. Due to the multitude of packaging materials and their different barrier properties we are not able to provide a general statement regarding through-migration.

Please note that migration can also occur by set-off when the printed surface is pressed against the food-contact surface of the packaging in the stack or reel.

DECLARATION OF COMPOSITION AND PRODUCT DECLARATION

As there are no specific regulations concerning printing inks and varnishes Zeller+Gmelin -like other ink suppliers- is obliged to follow regulations in the EU not directly related to printing inks.

Regulation (EC) No 1935/2004

Article 3 of the Regulation (EC) No 1935/2004 (impact on food) demands, that materials and articles do not transfer their constituents to food in quantities which could endanger human health or bring about an unacceptable change in the composition of the food or bring about a deterioration in the organoleptic characteristics thereof.

We urgently advise you to use for printing on food packaging only printing inks/lacquers which we specifically recommend for this application based on FCM formulations.

A possible impact on the quality of food does not solely depend on the printing ink/lacquer itself but is depending on the complete production chain (ink laydown, UV-power, substrate, etc.). For this reason we are not able to confirm a general compliance to Regulation (EC) No 1935/2004 only based on the composition of the ink/lacquer.

Based on Article 17 (traceability) material and articles shall be ensured at all stages in order to facilitate control, the recall of defective products, consumer information and the attribution of responsibility.

All raw materials for ink/lacquer batches at Zeller+Gmelin are documented in writing on the Formula Component Report. Based on the batch number every raw material can be clearly traced back to the raw material batch.

Regulation (EC) No 2023/2006

This so called GMP regulation (Good Manufacturing Practice) defines the requirements on the different participants in the manufacturing process of materials and articles intended to come into contact with food. It requests a system for quality assurance, control and documentation (§5-7). The EuPIA defined the requirements on printing ink manufacturers in the EuPIA-GMP.

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Regulation (EU) No 10/2011 and amendments

Regulation (EU) No 10/2011 establishes the specific rules for plastic materials and articles to be applied for their safe use and repeals Commission Directive 2002/72/EC of 6 August 2002 on plastic materials and articles intended to come into contact with foodstuff.

In this regulation, the so called PIM (Plastic Implementation Measure) limits are set for substances, which are allowed to be in direct contact with food and are allowed to migrate into food up to the level listed in Annex I. Substances used in printing inks must not (with few exemptions) get in direct contact with food and are therefore not listed in Annex I.

Paragraph (30) states, that coatings, printing inks and adhesives are not yet covered by a specific EU legislation and therefore not subject to the requirement of a declaration of compliance.

For the migration of non-authorized substances through a functional barrier into food a limit of 0,01 mg/kg (10 ppb) is defined.

Substances that are mutagenic, carcinogenic or toxic to reproduction should not be used without previous authorisation in food contact materials or articles and should therefore not be covered by the functional barrier concept.

CEPE / EuPIA – Exclusion Policy

CEPE is the European Council of producers and importers of paints, printing inks and artists colours whereas EuPIA is the European Printing Ink Group of CEPE. Many years ago the printing ink industry has implemented voluntarily the Exclusion Policy for specific substances.

Zeller+Gmelin is an active member in EuPIA and subgroups. The raw materials used by Zeller+Gmelin for the formulation of our printing inks/lacquers meet the guidelines of the CEPE / EuPIA Exclusion Policy. Thus CMR 1A and 1B raw materials (cancerogenic, mutagenic and reprotoxic) are not used in our printing inks /lacquers.

Heavy Metals

We herewith confirm that the limits of the heavy metals lead, cadmium, mercury and chromium(VI) layed down by the European packaging and packaging waste directive 94/62/EC as well as the „Model Toxics in Packaging Legislation“ of TPCH (former CONEG) are met. The limits layed down in EN 71-3 („ safety requirements for toys“) are also met. Heavy metals are not part of our formulations.

Hazardous substances

Substances mentioned in the Directive 2002/95/EC (RoHS) and Directive 2011/65/EC are not intentionally used in our printing inks/lacquers.

SVHC-substances (substances of very high concern): In our products no substances are used which are classified as CMR 1A & 1B, PBT (PBT pollutants are chemicals that are toxic, persist in the environment and

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bioaccumulate in food chains), vPvB (Substances that are potentially very persistent and very bioaccumulative) und endocrine disruptors (artificial hormones).

Furthermore we confirm that our printing inks/lacquers are in accordance with the Regulation (EC) No 1895 /2005 (repeals the Directive 2002/16/EC).

DIN EN ISO certification

The production site of Zeller+Gmelin / Germany is certified according to DIN EN ISO 9001:2015 and DIN EN ISO 14001:2015.

Swiss Ordinance 817.023.21

This ordinance regulates materials and articles intended to come into contact with food. On 01.04.2008 the ordinance was changed to include regulations concerning printing inks. Since 01.04.2010 only packaging which has been produced with printing inks based on listed raw materials may be supplied to consumers. We urgently recommend to only use our FCM products for food packaging being subject to SO817.023.21.

Please note:

According to applicable law the manufacturer of the finished article and the filler have the full legal responsibility to ensure that their product is fit for its intended purpose and complies with the applicable rules (not the supplier).

Please also consider the relevant publications of the European Printing Inks Association EuPIA (<http://www.eupia.org>).

There are many types of final packaging and the printing ink/lacquer is only one constituent. Since the parameters in the printing, packing and storage processes are not under the control of the printing ink manufacturer, the printing ink suppliers are not able to issue certificates or declarations of compliance which cover the legal responsibility of the entire packaging chain.

The statements made in this declaration are according to our current knowledge. They do not absolve the user from its own responsibility to ascertain that our products are suitable for his application.

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