



## TECHNICAL DATA SHEET

# UVACURID<sup>®</sup> PrimeCup C81 Ink Series

## FCM Ink Series for UV Container Decoration for Food Packaging

### CHARACTERISTICS

With the UVACURID<sup>®</sup> PrimeCup C81 Ink Series we present a FCM, especially for printing of packaging for food in UV container decoration, also referred to as dry-offset or indirect letterpress (FCM: Food Contact Materials).

The ink series is suitable for maximum press speed and stands out with its very good tape- and scratchresistance as well as very low dot gain. Because of its smooth and even distribution in the duct the UVACURID<sup>®</sup> PrimeCup C81 Ink Series shows a very good printability.

Adhesion and curing reach highest levels. Because of the outstanding rheological properties the inks lie very even and smooth on the substrate and show very low misting even at high press speed. The UVACURID<sup>®</sup> PrimeCup C81 Ink Series is formulated without free bisphenol A and without bisphenol A based raw materials (BPA-NI).

### TECHNICAL DATA

Drying/Curing	UV-Hg (Mercury Vapour)
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Substrate	Rigid Plastics - Film
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Printing Process	Indirect Letterpress
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Formulation	Suitable for FCM applications - VOC-free - BPA-NI - Non-DFC
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Press Performance	Low Misting
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Surface Properties	Glossy - Adhesion Optimized
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Application	Cups / Buckets
End Application	Food
Market	Plastic Containers
Conformities	Nestlé, Standard on Printing Inks for Food Packaging (St-80,001) - Switzerland, 817.023.21 - EuPIA Exclusion Policy
Available Systems	Z Base Colours - PANTONE <sup>®</sup> Base Colours
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

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### COVERING WHITES

#### UVACURID® C81-X55001 Premium opaque white

Our UVACURID® C81-X55001 Premium Opaque White is a high class product which stands out with its excellent opacity and its universal use as spot ink, mixing opaque white and for pre-print applications. Because of the high intensity of C81-X55001 you can achieve high density values with lower ink lay-down than with other common products in the market, also on transparent or coloured substrates.

It is overprintable with UV-inks and is therefore suitable for presses with pre-print unit. Furthermore it can be mixed in unlimited ratios with our UVACURID® C81 inks. The press performance of C81-X55001 is excellent despite the high intensity. Adhesion and curing reach highest levels. It shows very low misting even at high press speed.

#### UVACURID® C81-X55051 opaque white

The opaque white C81-X55051 shows a homogeneous ink film due to the specially adapted rheology. This results in a very uniform surface appearance. C81-X55051 is characterised by excellent curing and low yellowing. In addition, odour properties and migration behaviour have been further optimised.

C81-X55051 can also be overprinted under certain conditions, but we recommend carrying out practical pre-tests. In general, we recommend opaque white C81-X55001 for overprinting and preprinting, as it is specially optimised for these applications.

### ADDITIVES

#### UVALUX® U0012 UV Reducer

Addition max. 5%

Reduces the viscosity and the tack.

#### UVALUX® U0020 UV Slip Additive

Addition max. 2%

Improves scratch- and tape resistance, reduces blocking. High concentrated paste

#### UVALUX® U0021 UV Slip Additive

Addition max. 2%

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Improves scratch- and tape resistance, reduces blocking. Lower concentrated than U0020 but liquid and therefore easier to mix in

### 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

### UVACURID® PrimeCup C81-X60001 Transparent White

Addition unlimited

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

### W907 UV Wash Up

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.

### 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

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### 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. For metallic inks, we generally warranty only 3 months ink performance.

### SERVICE

Complete PANTONE<sup>®</sup> mixing recommendations. Ink formulation systems, mixing systems and dispensing systems are possible in different expansion levels.

### Base ink basis for mixing recommendations:

- UVACURID<sup>®</sup> PrimeCup C81-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).

#### Printing of Drinking Cups

When printing drinking cups we recommend to leave an unprinted area of 2 cm below the brim.

#### 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.

### MARKING

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### 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:

C81-Z... high intensity monopigmented base inks

C81-Z...S high intensity monopigmented base inks, high light resistance

#### PANTONE<sup>®</sup>:

C81-P... PANTONE<sup>®</sup> base inks

C81-P...S PANTONE<sup>®</sup> base inks, high light resistance

C81-C... PANTONE<sup>®</sup> mixed shades "coated"

#### PANTONE<sup>®</sup> Metallic print ready one-component base inks:

C81-P871 PANTONE<sup>®</sup> Gold (corresponds approximately to richgold)

C81-P877 PANTONE<sup>®</sup> Silver

**Special Colours:** C81-X...

**Covering White:** C81-X55...

**Transparent White:** C81-X60001

### 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.

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### 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<sup>®</sup> mixed shades
- Ink dispensing, mixing and measuring systems with different expansion levels available

### Product designation of the monopigmented base inks:

- UVACURID<sup>®</sup> PrimeCup C81-Z... high intensity monopigmented base inks

## MISCELLANEOUS

### Intense Black for the Use as Spotink

#### UVACURID<sup>®</sup> PrimeCup C81-X40015

Very brilliant and deep intense black

#### UVACURID<sup>®</sup> PrimeCup C81-X40300

Higher reactivity but lower intensity than UVACURID<sup>®</sup> PrimeCup C81-X40015. Blue tinted.

## RESISTANCE PROPERTIES

Colour Name	Article Number	Light Resistance	Spirit Resistance	Solvent Resistance	Alkali Resistance
<b>PANTONE<sup>®</sup> Base Colours</b>					
Warm Red	C81-P200	4 BWS	+	+	+
Yellow 012	C81-P101	5 BWS	+	+	+
Orange 021	C81-P150	5 BWS	+	+	+
Yellow	C81-P100	5 BWS	+	+	+
Red 032	C81-P201	4 BWS	+	+	+

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Rhodamine Red	C81-P203	6 - 7 BWS	+	+	+
Rubine Red	C81-P202	5 - 6 BWS	+	+	+
Purple	C81-P250	6 - 7 BWS	+	+	+
Violet	C81-P251	6 - 7 BWS	+	+	+
Reflex Blue	C81-P300	5 BWS	+	+	+
Process Blue	C81-P301	8 BWS	+	+	+
Blue 072	C81-P302	6 - 7 BWS	+	+	+
Black	C81-P400	8 BWS	+	+	+
Green	C81-P350	8 BWS	+	+	+
<b>Z Base Colours</b>					
Yellow	C81-Z2100	6 - 7 BWS	+	+	+
Yellow	C81-Z2101	5 BWS	+	+	+
Orange	C81-Z2150	5 BWS	+	+	+
Red	C81-Z2200	4 BWS	+	+	+
Red	C81-Z2201	5 - 6 BWS	+	+	+
Red	C81-Z2202	5 - 6 BWS	+	+	+
Red	C81-Z2203	6 - 7 BWS	+	+	+
Violet	C81-Z2250	6 - 7 BWS	+	+	+
Blue	C81-Z2300	8 BWS	+	+	+
Green	C81-Z2350	8 BWS	+	+	+
Black	C81-Z2400	8 BWS	+	+	+
<b>Z Base Colours (High Light Resitance)</b>					
Yellow	C81-Z2101S	7 BWS	+	+	-
Orange	C81-Z2150S	6 - 7 BWS	+	+	+
Red	C81-Z2200S	6 BWS	+	+	+
Red	C81-Z2202S	6 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

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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 UVACURID<sup>®</sup> PrimeCup C81 Ink Series is specially developed for FCM applications. Therefore, we recommend these products for printing of materials for food-packaging. The EuPIA designation "FCM" (food contact material) stands for products which are generally suitable for the production of food-packaging. Please note that our FCM products are designed for use on the packaging outside (Non-DFC). A direct contact of the filling with the printed image has to be avoided.

Due to the FCM formulation it is reasonable to assume that with these products the migration limit of the European Union should be well achievable (Regulation (EU) No 10/2011). Therefore, it should be possible to fulfil the legal requirements of Regulation (EC) No 1935/2004.

We produce our low-migration products in accordance with Regulation (EC) No 2023/2006 (Good Manufacturing Practice, GMP). The resulting demands on printing ink manufacturers are detailed in the EuPIA-GMP (see [www.eupia.org](http://www.eupia.org)).

In general 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.

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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.

We formulate our FCM products in such a way that potential migration is as low as possible, both through the substrate and by set-off from the printed surface to the food contact surface in the stack or reel.

The UVACURID<sup>®</sup> PrimeCup C81 Ink Series is formulated in accordance with the Nestlé Standard on Printing Inks for Food Packaging (St-80.001, 07/04/2022) and the Nestlé Guide to Packaging Inks (October 2018 edition).

The UVACURID<sup>®</sup> PrimeCup C81 Ink Series is formulated in accordance with the Swiss ordinance 817.023.21 on materials and articles intended to get into contact with food.

The UVACURID<sup>®</sup> PrimeCup C81 Ink Series is formulated without free bisphenol A and without bisphenol A based raw materials (BPA-NI).

### 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

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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.

### 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

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Packaging Legislation“ of TPEH (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 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.

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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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