



## UVACURID® C81-P877 LM Silber

### Low-Migration Monocomponent Silver for UV Container Decoration

#### Characteristics

With the UVACURID® C81-P877 LM Silber we present a low-migration monocomponent silver, especially for printing of packaging for food in UV container decoration (such as cups, buckets or lids; also referred to as dry-offset or indirect letterpress).

#### Technical Data

- **Drying/Curing:** UV-Hg (Mercury Vapour)
- **Substrate:** Film
- **Printing Process:** Indirect Letterpress
- **Formulation:** Low Migration - VOC-free
- **Surface Properties:** Adhesion Optimized
- **Application:** Cups / Buckets
- **End Application:** Food
- **Market:** Plastic Containers

#### 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

#### Storage

##### Optimal storage conditions:

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This edition 04/2017-UVACURID C81-P877 LM Silber-4 dated April 12, 2017 replaces the previous edition dated April 14, 2016.

With the present edition expires the validity of all older editions.

ZG Division: Printing inks  
Zeller+Gmelin GmbH & Co. KG  
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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 well before use
- can should be closed immediately after usage

**Warranty:**

If the inks are stored correctly, we guarantee a shelf life of 3 months from date of delivery, as our raw material suppliers guarantee this period to us. However we know from practical experience our products can remain usable for 1-2 years or longer if they are properly handled and stored.

### 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:**

- UVACURID® C81-P877-Z... high intensity monopigmented base inks

### 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.

### Remarks on Migration and Conformity

The following remarks are valid for the production of food packaging which conforms to the regulations in the European Union. We can not make any statements concerning food packaging legislation of countries outside the EU.

Regulation (EC) No. 1935/2004 requires that the one responsible for the “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 have an influence on the food-legislation related properties of a packaging. The production

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process of the packaging has a significant impact as well.

Therefore we recommend that you send your finished products to a recognized analytical institute for examination and certification. That way you can prove that your products comply with the legal requirements.

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

- correct processing, especially the complete through-cure of the ink film
- type of substrate and substrate thickness (sufficient barrier effect of the substrate)
- prevention of a direct contact of the printing ink with the food
- use of low-migration printing inks

The UVACURID® C81-P877 LM Silver has a special low-migration formulation. Therefore we recommend these products for printing of materials for food-packaging. The EuPIA designation "FCM" 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 low migration formulation it is reasonable to assume that with these products migration limit of the European Union should be well achievable (Regulation (EU) 10/2011 and Regulation (EU) 1183/2012). Therefore it should be possible with these products to fulfil the legal requirements of EC regulation 1935/2004.

We produce our low-migration products in accordance with the EU regulation 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)).

Generally you should ensure with a migration analysis that no migration through the entire packaging system takes place. Due to the multitude of packaging materials and their completely different barrier properties we are unable to make any statements regarding through-migration.

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

The UVACURID® C81-P877 LM Silver is formulated in accordance with the Swiss ordinance 817.023.21 on materials and articles intended to get into contact with food.

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