



UVACURID® T81-P871 LM Gold

Low-Migration Monocomponent Gold for UV Tube Printing

Characteristics

With the UVACURID® T81-P871 LM Gold we present a low-migration monocomponent gold, especially for UV container decoration (also referred to as dry-offset or indirect letterpress).

The ink 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)
- **Substrate:** Film
- **Printing Process:** Indirect Letterpress
- **Formulation:** Low Migration - VOC-free
- **Surface Properties:** Glossy - Adhesion Optimized
- **Further Processing:** Overvarnishing
- **Application:** Preformed Tubes - Cups / Buckets
- **End Application:** Food - Cosmetics - Pharmaceuticals
- **Market:** Plastic Containers

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

Additives

UVALUX® U0088 UV Printing Paste

Addition max.10%

Reduces the tack without reducing the viscosity significantly.

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This edition 04/2017-UVACURID T81-P871 LM Gold-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

Schlossstr. 20, 73054 Eisingen/Fils, Germany

Tel. +49 7161 802-0 - Fax +49 7161 802-200

www.zeller-gmelin.de - druckfarben@zeller-gmelin.de



UVACURID® T81-P871-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

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.

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 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.

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.

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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 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® T81-P871 LM Gold

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).

Generally you should ensure with a migration analysis that no migration through the entire packaging system takes place.

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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® T81-P871 LM Gold is formulated in accordance with the Nestlé Guidance Note on Packaging Inks.

The UVACURID® T81-P871 LM Gold 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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