


Technical Product Information		 ECKART Effect Pigments	
ROTOVARIO UV FPG 950 Gold Series			
Article-No.: 022047.. 022046..		Product Name: ROTOVARIO UV FPG 950 211 RG ROTOVARIO UV FPG 950 213 PG	
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Low Migration UV Gold pastes for the formulation of UV Flexo and Offset printing inks.

Product description:

ROTOVARIO UV FPG 950 Gold Series contains bronze pigments pasted in acrylate monomer (TMP(EO)TA) for the formulation of radical curing UV Flexo and Offset printing inks for food packaging application.

- Migration of TMP(EO)TA is low due to the high reactivity.
- Raw materials are selected with preference for high purity materials.
- White spirit and mineral oil are excluded from the production process of these gold pastes.
- GMP compliant production of ROTOVARIO UV FPG 950 Gold pastes (minimized risk of cross contamination) is guaranteed.
- The formulation is specifically developed for food packaging application; under selected test conditions migration limits are undercut.

The above fundamentally differentiates ROTOVARIO UV FPG 950 Gold pastes from standard UV Gold pastes.

ROTOVARIO UV FPG 950 gold pastes are not suitable for formulating inks for direct food contact

Organoleptic properties (taint and odour):

In all cases the printed material / package has to be tested to ensure that the organoleptic properties satisfy the packaging specification.

Application:

ROTOVARIO UV FPG 950 Gold pastes are suitable for formulating UV curing Flexo and Offset printing inks. For printing on paper, board and film for food packaging (indirect contact).

As with all metallic inks the substrate has a big influence on the final result with respect to effect, cure and adhesion. Very absorbent or uneven substrates often cause poor pigment orientation resulting in inferior brilliance. In some cases, the use of primers for an improvement of the substrate surface is advantageous.

In order to provide the maximum level of metallic brilliance ROTOVARIO UV FPG 950 Gold pastes are based on leafing bronze pigments, which could limit overprintability of the finished ink. However, dependent on formulation, printing parameters and substrate, metallic UV printing inks will accept many different types of overprinting including Thermal Transfer, Hot Foil Stamping, In-Line and Off-Line overvarnishing. It's recommended to cure the metallic ink before the UV varnish is applied, to achieve optimum results.

Please test the finished inks for overprintability prior to production runs.

Product properties:

Rub resistance:

ROTOVARIO UV FPG 950 Gold pastes are based on leafing metallic pigments to provide an ink with the highest level of metallic brilliance possible. Due to the leafing character of the bronze pigments the finished ink may exhibit poor rub resistance (depending on the film weight, the substrate used and the printing speed applied).

Technical data:

ROTOVARIO UV FPG	950 211 RG	950 213 PG
Pigment content	appr. 75%	appr. 75%
Pigment size (D₅₀)	appr. 2,5 µm	appr. 2,5 µm
Solvent content	0 %	0 %
VOC	0 %	0 %
TMP(EO)TA	appr. 25%	appr. 25%

For specifications of our products, please refer to the technical data sheet.

Handling:

ROTOVARIO UV pastes are concentrates suitable for the formulation of UV curing Flexo and Offset printing inks. The pastes can be dispersed in UV letdown by applying low shear forces.

When handling with UV-inks, please refer to the safety data sheet and the safety guidelines given there.

Cleaning recommendations:

ROTOVARIO UV-products can be cleaned by using conventional UV- cleaning agents. Also with esters or ester/alcohol mixtures the uncured inks can be removed easily from the cylinders.

Please refer to the safety data sheet and the safety guidelines given there.

Storage and transportation:

ROTOVARIO UV FPG concentrates should be stored at temperatures between 20°C and 25°C. Direct sunlight should also be avoided.


High temperatures can lead to gelling.

Opened containers should never be exposed to direct sunlight, since this will result in a preliminary polymerisation.

Shelf life:

6 months

Important: The shelf life of the material can be greatly reduced due to various factors such as light, heat, contaminants etc.

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ECKART cannot guarantee the shelf life of products which have not been stored at the recommended conditions above.

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