

Technical Product Information

ROTOVARIO 580 Goldbronze Series

Article-Nr.:
071908..

Product Name:
580 352 Rich Gold

Article-Nr.:
071909..

Product Name:
580 352 Rich Pale Gold

REVISION: 8

EDITION: MARCH 2021

IDENT-NO.: 00121.E

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Product description:

ROTOVARIO 580 Goldbronze grades are resin free bronze pigment concentrates.

ROTOVARIO 580 352 is based on 5µm bronze pigments, pasted in methoxy propanol.

These products have not been especially developed for the formulation of inks for the production of packaging for food, beverages and tobacco. Due to our production processes for these products, we cannot guarantee necessary measures for FCM (Food Contact Materials), such as special raw material selection, control of raw materials and end products regarding composition and impurities or production according to GMP.

A SoC is therefore not available for these products.

When using these products in indirect food contact, the suitability for this application has to be tested before commercial use by the user through suitable analyses.

Application:

ROTOVARIO 580 pigment paste series are suitable to formulate solvent based gravure, flexo and screen-printing inks.

As with all metallic inks the substrate has an influence on the final result. Very absorbent or uneven substrates often cause poor pigment orientation resulting in inferior brilliance. In some cases, the use of primers to improve the substrate surface is advantageous.

Product properties:

ALL ROTOVARIO 580 bronze pastes are based on leafing pigments and ensure high brilliant effects.

The various shades of gold bronze pigments are based on an alloy of copper and zinc (brass) in different ratios. These alloys can react with chemicals or natural materials under a change of colour shade up to a complete decomposition of the metal pigments. As all possible materials can not be listed here, proper testing of all materials (e.g. paper) involved in the whole production process, although not directly involved in the printing process, is absolutely necessary.

Additional product properties:

ROTO-VARIO	Pigment size (D ₅₀)	Pigment content	Solid content	VOC content
580 352	appr. 5 µm	appr. 88 %	appr. 88 %	appr. 12 %

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

Handling:

The ROTOVARIO pigment pastes are optimised for brilliance and metallic effect. The concentrates can be stirred directly into a solvent based binder system by using low shear stress aggregates.

Metallic inks tend to settle because of the high specific gravity of the pigment. This is normal and not due to a lack of quality. The inks can be easily stirred up and homogenised again. This should be done before viscosity is checked and adjusted. No pigment settling should be left on the bottom of the container. Please refer to the Material Safety Data sheet of ROTOVARIO 580 for further handling guidelines.

Guiding formulations:

These suggested starting formulations are examples intended for general guidance only and do not represent the optimum result for any specific application.

Flexo printing ink with PVB binder

ROTOVARIO 580	25 %
Ethanol	40 %
PVB binder (~30% resin in ethanol)	35 %
Σ	100 %

Homogenize the ROTOVARIO in solvent, add PVB resin solution and stir. The viscosity should be 20 - 25 seconds DIN4 cup.

Gravure printing ink with Acrylic binder

ROTOVARIO 580	25 %
Isopropylacetate	20 %
Acrylic binder (~25% resin in iso propyl acetate)	50 %
Σ	100 %

Homogenize the ROTOVARIO in solvent, add Acrylic resin solution and stir. The viscosity should be 16 - 22 seconds DIN4 cup.

Storage and transportation:

The ROTOVARIO types should be stored at temperatures below 25°C. High temperatures as well as very low temperatures should be avoided as these conditions could damage the product.

Shelf life: 6 months

For further information or samples, please contact:

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The data on this technical information sheet correspond with the current status of our knowledge and experience. The liability for the application and processing of our products lies with the buyer, and he is also responsible for observing any third party rights. We reserve the right to alter any product data as a result of technical progress or further developments in the manufacturing process.

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