


Technical Product Information			
ROTOVARIO 501 Series			
<b>Article-No.:</b> 024123...	<b>Product Name:</b> 501 042 IF Silver	<b>Article-No.:</b> 024281...	<b>Product Name:</b> 501 020 IF Silver
025999...	501 811 Silber	024280...	501 021 IF Silver
		024124...	501 022 IF Silver
<b>REVISION:</b> 3	<b>EDITION:</b> MAY 2022	<b>IDENT-NO.:</b> 00499.E	<b>PAGE</b> 1 OF 2

### Product description:

The ROTOVARIO 501 series represents a portfolio of additive-stabilized non-leafing aluminium pigments, pasted in ethyl acetate.

<b>Product Type:</b> 501 811 501 042 IF	<b>Silver dollar</b> Aluminium Pigment Non-leafing, additive-stabilised
<b>Product Type:</b> 501 020 IF 501 021 IF 501 022 IF	<b>Cornflake</b> Aluminium Pigment Non-leafing, additive-stabilised
<b>Lösemittel</b>	Ethyl Acetate

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 501 pigment paste series is 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:

#### Rub resistance and lamination properties:

The ROTOVARIO 501 series offers a range of aluminium pigment dispersions with a special technology and optimized non-leafing properties.

It is ideally suitable for the formulation of rub resistant and laminating inks. In each respective case, special tests are necessary because of the multiple factors influencing the final result.

Optimum colour consistency in polychromatic colours.

### Additional product properties:

ROTOVARIO	501 811	501 042	501 020	501 021	501 022
<b>Pigment-size (D<sub>50</sub>)</b>	ca. 11 µm	ca. 15 µm	ca. 14 µm	ca. 13 µm	ca. 11 µm
<b>Pigment content</b>	ca. 65 %	ca. 60 %	ca. 65 %		
<b>Pigmenttype</b>	Silberdollar		Cornflake		
<b>Solid content</b>	ca 65%	ca. 72 %	ca. 65 %		
<b>Ethyl Acetate</b>	ca 35%	ca. 28 %	ca. 35 %		

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

### Optical properties:

ROTOVARIO	Brilliance	Coverage
501 811 Silver	* * * * *	* * *
501 042 Silver	* * *	*
501 020 Silver	* *	*
501 021 Silver	*	*
501 022 Silber	*	* *

### Handling:


The ROTOVARIO 501 types are pigment pastes are optimized for high metallic effects. 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. No pigment settling should be left on the bottom of the container.

Please refer to the Safety Data sheet of ROTOVARIO 501 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.

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#### Flexo printing ink with PVB binder

ROTOVARIO 501 0xx SILVER	20 %
Ethanol	62 %
PVB resin	18 %
$\Sigma$	100 %

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

#### Gravure printing ink with NC binder for absorbent substrates

ROTOVARIO 501 0xx SILVER	35 %
NC wool	17 %
Triacetin	5 %
Ethanol	24 %
Ethyl Acetate	18 %
Wax	1 %
$\Sigma$	100 %

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

#### **Storage and transportation:**

All 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.

Keep drums tightly sealed when not in use and avoid unnecessary opening. Solvent might evaporate. A drying of the paste will result in non-dispersible agglomerates.

#### **Shelf life:**

<b>Product type:</b> 501 811 501 042 IF	<b>Silver dollar quality</b> 12 months
<b>Product type:</b> 501 020 IF 501 021 IF 501 022 IF	<b>Cornflake quality</b> 9 months

For further information or samples, please contact:

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