Technical Product Information

ROTOVARIO 530-Series

Article-No.:	Product Name:
071759..	530 020 Silver

Article-No.:	Product Name:
071728..	530 021 Silver
071760..	530 022 Silver

Product description:

ROTOVARIO 530 series represents a portfolio of resin free non-leafing aluminium pigments, pasted in ethyl acetate.

The products are available Cornflake qualities:
ROTOVARIO 530 020, 021 and 022 are based on Cornflake pigment pastes.

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

The ROTOVARIO 530 0.. series is pasted with ethyl acetate. Alternative solvents are available:

ROTOVARIO	Solvent
530 1..	Iso Propanol
530 2..	Iso Propyl Acetate
530 3..	Methoxy Propanol

Application:

ROTOVARIO 530 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 530 series is based on non-leafing pigments, suitable for the formulation of rub resistant inks. In each respective case, tests are necessary because of the multiple factors influencing the final result.

Optimum colour consistency in polychromatic colours.

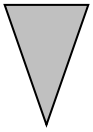
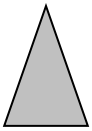
To formulate inks with optimized rub resistance and lamination properties the ROTOVARIO 501 series is recommended.

Additional product properties:

ROTOVARIO	Pigment size (D_{50})	Pigment content	Solid content	Ethyl Acetate
530 020	appr. 14 µm	appr. 65 %	appr. 65 %	appr. 35 %
530 021	appr. 12 µm			
530 022	appr. 10 µm			

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

Optical properties:

ROTOVARIO	Brilliance	Coverage
530 020 Silver		
530 021 Silver		
530 022 Silver		

Handling:

The ROTOVARIO 530 types are pigment pastes are optimised 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 530 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.

<u>Flexo printing ink with PVB binder</u>

ROTOVARIO 530 0..	20 %
Ethanol	62 %
PVB resin	18 %
Σ	100 %

Homogenize the ROTOVARIO 530 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 530 0..	35 %
NC resin	17 %
SAIB	5 %
Ethanol	24 %
Ethyl Acetate	18 %
Wax dispersion	1 %
Σ	100 %

Add Solvent to dilute the NC.
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: 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.