

Technical Product Information		
ROTOVARIO UV 900 114 Silver		
Article-No.: 053498...	Product Name: ROTOVARIO UV 900 114 Silver	

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UV Silver paste for the formulation of UV Flexo, Screen and Offset printing inks.

Product description:

ROTOVARIO UV 900 114 Silver contains stabilized, leafing aluminium pigment pasted in acrylate monomer (TMP(EO)TA) and *n*-Dodecylphosphonic acid for the formulation of stable, radical curing, one-component UV Flexo, Screen and Offset printing inks.

Organoleptic properties (taint and odour):

In all cases the printed material / package have to be tested to ensure that the organoleptic properties satisfy the packaging specification. Due to our production processes for this product, 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 this product.

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

Application:

ROTOVARIO UV 900 114 Silver paste is suitable for formulating UV curing Flexo, Screen and Offset printing inks on paper, board and foil.

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 900 114 Silver is based on leafing aluminium pigments, which could limit over printability 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 over varnishing. It's recommended to cure the metallic ink before the UV varnish is applied, to achieve optimum results.

Please test the finished inks for over printability prior to production runs.

Product properties:

The aluminum pigment of ROTOVARIO UV 900 114 Silver gives a high metallic effect and transfers very well in finished UV curing inks.

Rub resistance:

ROTOVARIO UV 900 114 Silver is based on a leafing metallic pigment to provide an ink with the highest level of metallic brilliance possible. Due to the leafing character of the aluminum 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	900 114 Silver
Pigment content	56 %
Pigment size (D₅₀)	appr. 6.5 µm
Solvent content	< 0,2 %
VOC	< 0,2 %
TMP(EO)TA	appr. 35,5 %

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, Screen and Offset printing inks. The pastes can be dispersed in a UV letdown by applying low shear forces.

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 finished inks can be easily stirred up and homogenised again. This should be done before viscosity will be checked.

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

High temperatures can lead to gelling. Low temperatures can result in the separation of low soluble binder components.

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

Shelf life: 6 months

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Important: The shelf life of the material can be greatly reduced due to various factors such as light, heat, contaminants etc. ECKART cannot guarantee the shelf life of products which have not been stored at the recommended conditions above.

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.