


Technical Product Information			
ROTOVARIO Aqua 611 - series			
Article-No.: 024141...	Product name: ROTOVARIO Aqua 611 010 Silver Slurry	Article-No.: 024107...	Product name: ROTOVARIO Aqua 611 012 Premium Silver Slurry
REVISION: 1	EDITION: JUNE 2021	IDENT-NO.: 00497.E	PAGE 1 VON 2

Product description:

The ROTOVARIO Aqua series represents a portfolio of non-leafing and leafing aluminium pigments in dispersing form.

The Silver dollar or Cornflake pigment pastes are available in various pigment sizes:

- ROTOVARIO Aqua 611 010 based on non-leafing Cornflake pigments and is recommended for water based Flexo and gravure standard applications
- ROTOVARIO Aqua 611 012 based on non-leafing silver dollar pigments for high covered, very brilliant effects in water based flexo and gravure applications
- The binder-free dispersion is compatible to most water binder systems.
- Dispersed pigment pastes in water, easy to disperse and easy handling / dosage
- The dispersions are stabilized to minimise gassing. Due to the variety of available binders, a final stability test is necessary.

All raw materials of these products are listed in swiss ordinance, but these products have not been especially developed for the formulation of inks for the production of packaging for food, beverages and tobacco. Therefore suitability for this application has to be tested before commercial use (e.g. via migration testing or risk analysis) and cannot be guaranteed by ECKART.

Application:

ROTOVARIO Aqua 611 pigment pastes are suitable to formulate water 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:

Pigment concentrate based on non-leafing Cornflake aluminum pigments, ROTOVARIO Aqua 611 010, suitable to tinted, e.g. for the formulation of imitation gold effects.

Pigment concentrate based on non-leafing silver-dollar aluminum pigments, ROTOVARIO Aqua 611 012, characterized by high brilliance and suitable to tinted.

In each respective case, special tests are necessary because of the multiple factors (binder systems, defoamers or other surface active substances) influencing the final result.

Due to the hydrophobic nature of the stabilizing additives, all ROTOVARIO Aqua types, independent from the nature of the base pigment, provide a more or less pronounced leafing effect in water borne systems.

Rub resistance and lamination properties:

Non-leafing pigment pastes are suitable for the formulation of rub resistant inks. In each respective case, special tests are necessary because of the multiple factors influencing the final result.

Additional product properties:

ROTOVARIO Aqua	611 010 silver slurry	611 012 premium silver slurry
Pigment characteristic	Non-leafing	Non-leafing
Pigment type	Cornflake	Silver dollar
Pigment content (approx.)	35 %	35 %
Solid content (approx.)	45 %	45 %
Pigment size D₅₀ (approx.)	10 µm	10 µm
VOC content	< 0,1 %	< 0,1 %
Shelf life	12 month	12 month

For technical specifications please refer to the technical data sheet.

Handling:

The ROTOVARIO Aqua 611 pigment concentrates are optimised for high metallic effects. The concentrates can be stirred directly into a water based binder system by using low shear stress aggregates.


Water based metallic inks are ideally dispersed under vacuum. This avoids air and foaming during production process. 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 Aqua 611 series for further handling guidelines.

Storage and transportation:

All ROTOVARIO Aqua 611 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: 12 months

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