


Technical Product Information		
ROTOSAFE 760 003 Silver		
Article-No.: 070214..	Product Name: ROTOSAFE 760 003 Silver	
REVISION: 5	EDITION: MARCH 2018	IDENT-No.: 00071.E
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Product description:

ROTOSAFE 760 003 based on stabilized leafing aluminium pigments in pellet form.

- Clean handling and easy dosage with dust free pellets.
- High pigment content of 95% for highest flexibility in ink formulation.
- 760 003 based on leafing cornflake pigments.

This product has 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 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:

ROTOSAFE 760 003 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.

ROTOSAFE 760 003 based on leafing pigments for high brilliance. If good rub resistance is required use an overprint varnish.

Product properties:

ROTOSAFE 760 contain 95% metallic pigment and 5% ketone resin (Laropal A81, BASF) and are compatible with all major organic solvents (e. g. Ethyl Acetate, n-Propyl Acetate, Ethanol, Iso Propanol, etc.) and binder systems (e. g. Acrylics, PVB, Polyamides, Cellulose systems, etc.)

Rub resistance and lamination properties:

ROTOSAFE 760 003 is based on leafing pigments. Compared with corresponding non-leafing products ROTOSAFE 760 pellets have tendencies to reduced rub resistance as well as to reduced lamination properties. This tendency might be influenced further due to an inadequate binder system.

Additional product properties:

ROTOSAFE	760 003
Pigment content	appr. 95%
Pigment characteristic	leafing Cornflake
Solid content	appr. 99,5%
Pigment size in µm (D₅₀)	appr. 12,0

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

Handling:

ROTOSAFE 760 003 is optimised for high metallic effects.

Slightly stir or homogenize the pellets for several minutes in the solvent. This is necessary to get an optimum wetting of the pigment surface and homogenous pigment dispersion.

After that, binder and other formula components can be stirred into the pigment dispersion by using adequate shear stress aggregates.

Depending on the viscosity of the product, a butterfly mixer or a disk dissolver can be used. Ideally, the ratio of disk to the inner binder diameter should be 1:2 or 1:3.

Avoid excessive shear stress or a disproportionate rise in temperature during production process. Excessive shear stress might lead into pigment damage and consequently to a loss in brilliance. Too little shear energy could also impact the optical effect due to poor pigment orientation

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 for further handling guidelines.

Guiding formulation:

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

Gravure silver ink for paper and board in acrylic-system:


ROTOSAFE 760 003	20 %
Solvent (e.g. Acetate)	20 %
Acrylic varnish (e.g. 30% Degalan P24 ¹⁾ in Acetate)	60 %
Σ	100 %

Supplier:

(1) Rohm & Haas

Add ROTOSAFE 760 003 to solvent, let soak for at least half an hour and then mix well. Add resin and disperse.

Adjust viscosity to print viscosity (16 – 20 s DIN 4 cup)

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Flexo silver ink for paper and board in PVB-system:

ROTOSAFE 760 003	18 %
Solvent (e.g. Ethanol or Methoxypropanol)	22 %
PVB varnish (e.g. 30% Pioloform BL 18 ¹⁾ in Ethanol)	60 %
Σ	100 %


Supplier:
(1) Wacker

Add ROTOSAFE 760 003 to solvent, let soak for at least half an hour and then mix well. Add resin and disperse.
Adjust viscosity to print viscosity (18 – 22s DIN 4 cup).

Storage and transportation:

All ROTOSAFE 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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