



UV- screen printing UV-Metallic



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1. SHORT DESCRIPTION / APPLICATION

High-quality, brilliant UV-curing metallic-inks with good coverage, suitable for label applications of rotary and flat-bed silk screen printing presses.

2. PROPERTIES / SUBSTRATES

- Very good light fastness
- For the alkali fastness, please see the list of products
- Good ethanol fastness

Adhesion, scratch and scuff resistance, Water resistance (wet scratch and wet scuff resistance) as well as resistance to cosmetics, shampoos alcohol and cleaning agents are (measured on standard requirements) obtained on following substrates:

- **Inline Corona-treated polyethylene, with a surface tension of at least 40-45 mN/m**
- **Inline Corona-treated polypropylene, with a surface tension of at least 42-45 mN/m**
- **Lacquered / primered polyethylene**
- **Lacquered / primered polypropylene**
- **coated papers and boards**
- **uncoated papers and boards**

- **Other substrates upon technical evaluation.**

To observe:

Before the print job is started, the compatibility of new materials with the inks of this series must be checked, even if their suitability on a comparable substrate is proved.

For questions, please contact our application- technology team.

3. PRINTING AND PROCESSING INSTRUCTIONS

Printing

To observe:

Stir up well each ink or varnish before use. Gold and silver inks show sedimentation of essential components during storage. Please stir up the inks carefully, since a strong shear-forces can damage the metallic pigments and thus worsen the metallic effect.

Cleaning

The inks can be removed from tools and screens with the cleaning agent **10-650038-2** (V 316) or Methoxypropanol.

To observe:

Reactive UV-thinners are not suitable for cleaning.

Screens:

Rotary screens:

- **Gallus:** KM KS, HS, S-Line RSS
- **Stork:** RM 305/11%, RM 305/13%, RM 305/17%, RotaPlate 355S

Flat bed screens:

- 130-34, 140-34 OSC

This information is only a recommendation. In order to achieve an optimal result, please carry out some tests.

4. SHELF LIFE

Under normal storage conditions, the inks have a shelf life of 4 months.

Normal conditions are:

- storage in tightly closed, unopened containers
- storage-temperatures not exceeding 20°C for weeks or 25°C for days

The shelf life can be extended by cool storage under 15°C.

To observe:

- *Do not expose open containers to direct sunlight or strong light sources.*

5. PRODUCT LIST

Product name	PMS	SAP-Number	Light fastness Wool-scale WS (DIN 16525)	Alkali-/soap resistance (DIN 16524)	Alcohol resistance (DIN 16524)	Solvent resistance
MS RAD GOLD 871	871	81-408647-6.2730	7	2	5	4
MS RAD GOLD 872	872	81-408648-4.2730	7	2	5	4
MS RAD GOLD 873	873	81-408649-2.2730	7	2	5	4
MS RAD GOLD 874	874	81-408650-0.2730	7	2	5	4
MS RAD GOLD 876	876	81-408651-8.2730	7	2	5	4
MS RAD HG SILVER 9007		81-408668-2.1180	7	2	5	4
MS RAD SILVER 059		81-408643-5.2730	7	2	5	4
MS RAD SILVER 877	877	81-408654-2.1180	7	2	5	4

Additives

LM Reactive thinner 83 71-470070-5.1020 addition up to 5%
411 Photoinitiator 52 71-470100-0.1020

6. SECURITY

To observe:

Safety data / Information on composition

Do not handle products without having consulted the corresponding safety data sheets, We supply them together with the first shipment to your safety manager.

7. HSE

Product safety

Intended use

Food packaging: NO

Only suitable for food packaging if the specific application and design preclude any migration through the substrate or set-off from the printed side to the back side in the stack or reel

Please consult in our information sheet: „Customer Guidance: Printing Inks for Food Packaging” the annex 2: “The Selection of the Ink Product” <http://www.siegwerk.com/en/customer-segments/sheetfed-uv/service.html>

Because of the differences in materials for printing, processing conditions and test criteria, **this Technical Data Sheet can only be of an advisory nature.**

Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience.

Your own tests with the original materials under respective conditions are indispensable.

We disclaim any liability for applications, for which this ink series is not foreseen.

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