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Business Unit: Inks & Graphic Arts
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METAPRINT[®] Lithogloss UV-NI

Photoinitiator-Free Energy Curable Metallic Inks

Technical features	Typical analysis		Test method:
	Gold	Silver	
Metal content:	≈ 42 %	≈ 15 %	
Non-volatile content:	≈ 100 %	≈ 100 %	
Laboratory print density:	0.9 – 1.1		
Gloss:	Min. 60		
Viscosity:	approx. 15 Pas		

Description

- Formulation does not contain photoinitiator
- Energy curing metallic ink for application in offset sheetfed, web or letterpress
- Good performance in a wide range of applications, substrates and print designs
- Based on leafing metallic pigments

Features

- Excellent printability
- Fast curing
- Good metallic brilliance
- Benzophenone and ITX free



Product Reference Numbers

Shade	Ref. No.
Rich Gold	UV-NI 182-01
Rich Pale Gold	UV-NI 182-02
Pale Gold	UV-NI 182-03
Silver	UV-NI 182-07

Storage

METAPRINT[®] Lithogloss UV-NI inks are supplied in black plastic packaging units to ensure maximum stability. For maximum shelf life, the inks should be stored in closed containers at temperatures below 25 °C, away from direct heat and exposure to UV light. Stocks should be rotated (i.e. use oldest stock first). For safe handling information please refer to safety data sheet.

Data in this publication is based on careful investigation and is intended for information only. All information shall be not binding, shall carry no warranty as to certain ingredients, as to the suitability for a special purpose, as to the merchantability or as to industrial property rights of third parties. Any and all users are obliged to carry out tests on their own authority as well as to check the suitability and the danger of the respective product for a particular application Schlenk shares no liability hereof and as to the exactness and completeness of the data. We apply our General Sales Conditions to be found on www.schlenk.com.

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Shelf life (valid from date of filling)

At least 6 months in originally closed containers

Application Recommendations

METAPRINT® Lithogloss UV-NI inks provide high print density with good metallic brilliance. These inks have optimized ink/water balance and distribution properties that deliver excellent press performance on especially for UV-inks suitable rollers (e.g. EPDM). The Lithogloss UV-NI series are highly versatile inks suitable for a wide variety of applications and print designs including fine type and solids on coated and uncoated paper and board.

For highest color intensity and coverage we recommend 1 – 1.5 g/m².

Depending on the substrate and press conditions the values of gloss, optical density and color shade may vary.

Our laboratory reference values on coated paper with weighed sample of 0.6 g with Mickle Peach Printer are:

Gloss (Micro-Tri-Gloss, 60°) for METAPRINT® Lithogloss UV-NI: > 60

Laboratory print density for METAPRINT® Lithogloss UV-NI: 0.9 – 1.1

METAPRINT Lithogloss UV-NI should be remixed gently before usage. High speed or high shear mixing may damage the metallic pigment and cause the ink to lose brilliance.

Resistance Characteristics

Light fastness: UV offset gold inks have Blue Wool Scale values of 4 - 5 and the silver inks have a value of 7 (Blue Wool Scale according to ISO2835 - 1974 where 1 is very poor and 8 is excellent).

Chemical Resistance: Metallic inks can change color when in direct contact with certain chemicals. It is recommend to use a chemical resistant overprint varnish where appropriate or testing the metallic print prior to production runs.

Overprintability

METAPRINT® Lithogloss UV-NI prints can be varnished with UV-curing lacquers to improve the rub resistance of the print. The varnishability properties are highly depending upon the substrate absorbency, the adhesion and surface wetting properties of the overprint lacquer. Therefore results can vary widely or even have an impact on the metallic performance. Therefore tests prior to production runs are recommended.

Food Contact

METAPRINT® Lithogloss UV-NI metallic inks have been designed for use on secondary food packaging and packaging where a functional barrier exists between the primary packaging and the product. These inks have not been formulated with low migration materials and, are therefore not recommended for use on primary food packaging or in any other applications where low migration is a requirement.

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