


Technical Product Information		
PLATINSTAR FPG FX-71950		
Article-No: 022189...	Product Name: PLATINSTAR FPG FX-71950	
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Product description:

PLATINSTAR FPG FX-71950 is a solvent based Flexo ink, based on platindollar pigments for brilliant effects on absorbent substrates like paper and carton and for mirror effects on film.

Mirror-like effects (reverse printed) and high brilliant effects (surface printed) are possible utilizing PLATINSTAR FPG FX-71950. The ink provides additionally excellent hiding power.

The ink PLATINSTAR FPG FX-71950 was especially developed for printing on food packaging. However this ink is in an experimental stage and we have not finalized all tests such as migration testing or purity control. The suitability of the series for this application cannot be guaranteed by ECKART yet and has to be tested prior to commercial application (e. g. by migration testing or risk assessment).

Application:

PLATINSTAR FPG FX-71950 is a solvent based Flexo ink. Ideal suitable for printing on film, e.g. self-adhesive labels and flexible packaging. In addition it is suitable for printing on paper and carton, like for example labels, wall paper, gift wrap, corrugated board, flexible paper packaging and folding carton.

PLATINSTAR FPG FX-71950 is developed for reverse printing on transparent films to create mirror-like effects, which can substitute metalized substrates, foil blocking or de-metalizing processes. The inks achieve high brilliant effects surface printed onto transparent or opaque films. In addition PLATINSTAR FPG FX-71950 is developed for surface printing on absorbent substrates to create high brilliant effects, which can substitute metalized substrates.

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. This is true not only for optical properties as brilliance and hiding power, but also for printing properties such as adhesion and transfer. In some cases, the use of primers to improve the substrate surface is advantageous.

Product properties:

Rub resistance and lamination properties:

PLATINSTAR FPG FX-71950 is based on non-leaving pigments. The split proof and the lamination properties are excellent as long as the adhesion to the substrate is given. The rub resistance is very good on almost all substrates. Over lacquering is therefore neither necessary nor recommended as this would reduce the metallic effect.

Adhesion:

PLATINSTAR FPG FX-71950 is recommended for OPP, pre-treated PET and PE. Pre-treated films (preferably in-line corona treated) give usually excellent adhesion. Due to the large variety of films individual tests before any commercial use is necessary.

PLATINSTAR FPG FX-71950 shows good adhesion on typical paper and carton qualities. Intercoat adhesion has to be tested prior to any commercial use.

Additional product properties:

PLATINSTAR FPG	FX-71950 Silver
Pigment content	approx. 10 %
Pigment size (D₅₀)	approx. 10 µm
Solid content	approx. 14 %
Binder	Polyvinylbutyral (PVB)
Solvents	Alcohol & Ester

For technical specifications please refer to the technical data sheets.

The supply viscosity of PLATINSTAR FX-1951 offers flexibility to the user (e. g. to direct blend the ink with process colors; to adjust the drying; to adjust the individual print viscosity).

Recommended printing parameters:

Cylinder configuration:

Both etched and engraved anilox cylinders are suitable (depending on the design). The following parameters have shown to be useful:

Highest brilliance, also for fine details:
 Line count: 100 - 200 lines/cm
 Cell volume 8- 12 cm³/cm²

For higher film weights or hiding power, cylinders with higher cell volumes are recommended. However, the metallic effect could be reduced by printing too high film weights.

Printing speed:

The maximum printing speed depends on individual press conditions, substrate and chosen cell volume. Normally the effect improves with increasing printing speed. The ink is suitable for highest printing speeds.

Printing viscosity: 23 – 28 s (DIN 4-cup)


The ideal printing viscosity also depends on cylinder configuration and may vary from the given data.

Solvent might evaporate during the printing, which would lead to an increase of viscosity and this impact the print quality in a negative way. Please check viscosity regularly and adjust, if necessary, with solvent.

Dilution:

PLATINSTAR FPG FX-71950 should be adjusted to printing viscosity with Ethanol/Ethyl Acetate blend (4:1). For slower drying methoxy propanol could be used as a retarder.

The amount of solvent may depend on the chemical nature of the solvent.

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Cleaning recommendations:

PLATINSTAR inks can be removed from the cylinder with alcohols or alcohol/ester blends at any time.

In any case contamination of the ink with cleaning agents must be avoided in order to maintain stability and optical properties.

Please refer to the Safety Data sheet for safety instructions.

Handling:

PLATINSTAR products are stable one-component inks with excellent metallic effects and high brilliance. The inks can be printed as delivered or adjusted to print viscosity. However, blending of PLATINSTAR inks with other components should only be done on ECKART's recommendations in order to avoid a possible decrease in quality.

Metallic inks tend to settle because of the high specific gravity of the metallic pigments. 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 check. No pigment settling should be left on the bottom of the container.

Please refer to the Safety Data sheet of PLATINSTAR FPG FX-71950 for further handling guidelines.

Storage and transportation:

All PLATINSTAR products 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 (oxidation/ gassing or flocculation of binder/additives with low solubility).

As the solvents in all PLATINSTAR inks are highly volatile, it is recommended to keep drums tightly shut and avoid unnecessary opening.

ECKART cannot guarantee shelf life stability for used products. Often enough used inks are printed again, we recommend optical tests prior to commercial use.

Additionally, used ink should be stored in a drum with air vent valve as possible contaminations (e. g. water content in solvents) can lead to gassing.

Shelf life: 12 months

For further information or samples, please contact:

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