



## MetalFX® 5100

### Special ink series for metallic effects

Our new special ink series makes it possible to reproduce high quality, metallic colours in the offset process with a degree of variety previously unknown and with a fantastically high level of brilliance. With the aid of the prepress program written specifically for this printing technique (the software must be purchased), it is possible to create and print simulations of holograms, 3D effects and, by combining various MetalFX® practices, simulated security features. The MetalFX® concept originated from an idea to produce vibrant, special-effect inks for sale at a reasonable price. This idea has led to the development of an impressive, user-friendly prepress program. With this program in combination with the inks that have been developed specifically for this technology, we now have a system at our disposal that allows us to turn our desires for exclusivity into reality.

The MetalFX® system is based on four special process colours and a terrifically brilliant silver, and is designed for printing wet on wet. Wet-on-dry processing is possible in principle, but this application method will not produce hues that accurately match those shown in the colour guide due to the different ink trapping characteristics.

MetalFX® 5100		Fastness characteristics per DIN 16 524/25			
		Light WS	Alcohol	Solvent mixture	Alkali
<b>Yellow</b>	<b>41 F 5100</b>	5	+	+	+
<b>Magenta</b>	<b>42 F 5100</b>	5	+	+	-
<b>Cyan</b>	<b>43 F 5100</b>	8	+	+	+
<b>Black</b>	<b>49 F 5100</b>	8	-	-	+
<b>Black</b>	<b>49 F 5101</b>	8	+	+	+
solvent resistant					
<b>Silver</b>	<b>46 G 5100</b>	8	+	+	-

F = stay-fresh formulation · WS = wool scale

### Special properties

Thanks to delicate harmonising, and taking into account all parameters of relevance to real-life practice, such as ink trapping, release, dot gain, etc., this ink series guarantees perfect reproducibility of the hues as they are depicted in the MetalFX® colour guide printed with Huber's MetalFX® ink.

Pigments with the highest degrees of transparency and purity guarantee a maximum of cleanliness, this being a basic prerequisite for the reproduction of vibrant metallic colours. The high pigmentation of the MetalFX® inks allows low ink film to be run. The high lustre silver will generate excitement. This combination ensures the maximum degree of brilliance possible and reduces to a minimum the loss of metallic lustre suffered by the Silver caused by the subsequent overprinting with ink. Other special properties of these inks are:

- Very good gloss.
- Average setting speed.
- Good stackability.

- Rapid oxidative drying.
- Good rub resistance.
- High level of fount solution tolerance.
- Rapid adjustment of a stable ink/water balance.

## Range of applications

The MetalFX® ink series, in combination with MetalFX® prepress technology, guarantees the best results possible when printing metallic colours. MetalFX® technology produces its most impressive effect on gloss- and matt-coated stocks (reduced rub resistance is expected on matt-coated substrates). The composition of the vehicle, which has been configured specifically for wet-on-wet printing on Silver, guarantees high print run stability.

## Auxiliaries

MetalFX® inks must always be used straight from the can without any further additives. Should it become necessary, under exceptional circumstances, to adapt the process inks to special printing conditions, additives should be used which are compatible with the highly developed vehicle system:

- for reducing tack, 2 – 3% **Corona Paste 10 T 3322**,
- for accelerating oxidative drying, **MONSUN 10 T 7265**.

## Classification

German Hazardous Substances Ordinance (GefStoffV): None

Safety data sheet available on request.

## How supplied

1.0-kg vacuum-sealed can

2.5-kg vacuum-sealed can (Silver only available in 1-kg vacuum-sealed can)