



Silver inks for web offset heatset printing

Application

Metallic-effect printing inks open up great possibilities for the design of printwork in web offset heatset, too. Metallic gloss has always been the epitome of beauty and luxury, so it is only understandable that civilised man has forever been trying to imitate these effects.

Silver effects such as those offered by our ink known as

ROLLO-THERM® Silver 46 HS 0400

are created using pigments based on aluminium.

Converting

The best metallic effect is achieved on coated substrates that have a uniform, smooth surface. In view of the highly pigmented and extremely opaque systems, it is neither recommendable nor necessary to try to enhance the effect through excessive inking. As a rule, this only leads to printing problems such as piling, inadequate smudge resistance, increased emulsification and ink flying. It has proven to be best when the silver ink is not printed from the final inking unit, especially when printing solids. Smoothing the print by means of an additional rubber blanket does bring advantages as regards producing an uninterrupted coating.

Metallic pigments are particularly susceptible to corrosion. And this fact must be taken into consideration by printmen. For this reason, the pH of the fount solution should be no lower than 5.5. In addition, the amount of fount solution applied should be kept to a minimum in order – especially when ink consumption is low – to avoid over-emulsification and poor ink coating that goes hand in hand with this.

Metal-effect inks

Countless fine metal-effect colours and gold imitations can be created by mixing Silver 46 HS 0400 with any coloured ink and in any concentration.

Surface finishing

When conducting subsequent surface-finishing procedures, such as UV varnishing or film laminating, on dried metal-pigmented heatset inks, problems are repeatedly experienced as regards adhesion. The cause of these problems are stabilisers and lubricants added during the production process, which adhere to the surface of the metallic pigments. The amount of these additives on the dried ink surface fluctuates depending on the pigment concentration, the absorbency of the substrate and the quantity of ink applied. Consequently, we recommend that you examine the varnish-acceptance and adhesion characteristics between the ink film and the surface finish thoroughly in the run-up to the print job.

Shelf life

Compared with gold inks, silver inks are far more stable.

However, a shelf life of 12 months should not be exceeded.

Classification

Code per German law on hazardous substances (GefStoffV): None

Safety Data Sheet available on request.

How supplied

10-kg plastic tank

25-kg plastic tank

Contact addresses for advice and further information: www.hubergroup.de

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