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UV CURING METALLIC INKS

Stehlin Hostag Ink UK has a range of two pack UV metallic inks, which have proven them time and time again as a market leader. The product is manufactured to the highest specification using formulations developed by the Huber Group.

Many printers in the UK have these metallic inks to give press stability with superb lustre and highly efficient curing systems, which often lack in competitor inks.

It is possible, with the silver, to change the mixing ratio of the varnish and paste to improve the yield value, which will give better ink transfer. The standard mix is 3 parts paste to 7 parts varnish; this can be altered to 2 parts paste to 8 parts varnish. This will also improve the cure and rub resistance. We do not recommend the mixing ratio of the gold ink be changed, as this will have more affect on the final shade and opacity of the ink.

Because UV metallics have a limited stability it is necessary to supply them in a two-pack system. Stehlin Hostag UV metallics are supplied in packaging which makes on-site blending at the printers simple.

Recommendations

- Machine Settings - ensure all pressures are set to a minimum
- UV Lamps - minimum capacity 80w/cm
- Running Speeds - dependent upon print area, design, UV drying capacity, substrate and finishing requirements
- Substrates - a wide range of coated and uncoated papers and carton board
- Varnishing - UV metallic inks are suitable for UV varnishing but caution needs to be exercised if water based coatings are to be applied
- Wash-up - UV metallic inks will stay open indefinitely unless exposed to UV light. To clean off normal UV press wash ups are suitable for this process



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- However, it is still necessary to understand that UV metallics are quite difficult to print compared to standard UV inks and difficulties can occur if certain procedures are not followed. If unsuitable roller coverings are used, poor ink transfer can occur. We recommend the use of a nitrile-caontchonc roller with a shore hardness of 40.
- Also, to prime the rollers, the varnish part of the metallic mix should be
- 'run-up' on the rollers before the metallic is applied; this will optimise the transfer of the metallic.

Product Range

Also available are the full pantone standard ranges as detailed below:

Mixing ratio 1:1

UV Gold	871C	310 754/R	1 tin varnish 1 tin paste
UV Gold	872C	240 624/R	1 tin varnish 1 tin paste
UV Gold	873C	310 755	1 tin varnish 1 tin paste
UV Gold	874C	220 974	1 tin varnish 1 tin paste
UV Gold	875C	250 291	1 tin varnish 1 tin paste
UV Gold	876C	310 756/R	1 tin varnish 1 tin paste

