

UV OR NOT UVno question!

Since the dawn of print, journeymen have been seeking aesthetic enhancement to mundane print runs. The Chinese used stamps, the monks used gold leaf, the Italians converted from parchment to paper, Guttenburg used oil, Senefelder experimented with water resistance and Hi-Tech Inks used their technical expertise to develop a UV curable overprint varnish to liven up **YOUR PRINT.**

UV -TECH OPVarnish is a high gloss UV curable coating that can be utilised for a number of different substrates. It can be used for both lithography and flexography and displays excellent printability which improves the aesthetics across a range of different print jobs. The low odour content is also vital to the successful conversion of packaging for use in the food, cosmetic and pharmaceutical sectors.

PROPERTIES

- **High gloss**
- **Solvent free**
- **Non-yellowing**
- **Low odour**
- **100% Solid Content**
- **High chemical resistance**
- **High Scuff**

* Printed with Toyo Inks and UV Tech OPVarnish



SUBSTRATES

- Printed board
- Coated Papers
- Treated PP, PE, films and foils

When using printed substrates, inks must be cured and dry i.e. Litho inks curing period is at least 24-48 hours depending on conditions and substrate absorbency. Avoid printing UV-Tech OPVarnish on top of slow drying litho inks and inks with high wax and silicone contents. Always check treatment on impervious non-absorbent materials. Treatment to be greater than 38 Dynes Preliminary testing is imperative.

PRINT VISCOSITY

Viscosity should not be adjusted as the initiator ratio will decrease thus slowing down the cure time. The varnish should be printed at 25°C.

APPLICATIONS

Rollercoaster type machines or chambered anilox systems with UV lamps, UV Tech OPVarnish may require heating in print rooms that are not temperature controlled i.e rippling, pin holeing and excessive film weights due to high viscosity in cold conditions will affect final results

PRINTING INDICATIONS

UV LAMPS:

- Minimum capacity 80 watts/cm
- UV Tech OPVarnish converts into a film by radical polymerisation, initiated by UV radiation in the range of 250-400 nanometres.

MACHINE SPEEDS:

- Must be adapted to the substrate regards power and condition of the UV Lamps.

CLEANING:

- Clean machine and equipment with alcohols.

STORAGE:

- Non-flammable light sensitive, store in a cool area between 18°C to 25°C and never in direct sunlight.
- If the storage recommendations are adhered to, shelf life should be approximately 12 months.

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