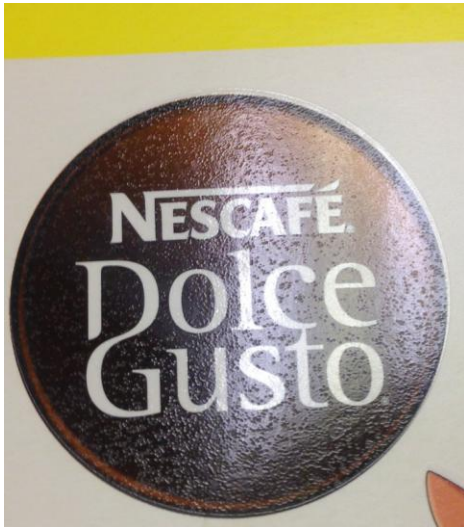


Are you using the correct Anilox for UV high Gloss varnish in Offset?

Coatings have evolved from a simple protective layer of gloss to a highly impactful design mean for enhancing spots or solids. The creative use of coatings gives rise to products whose visual and tactile properties make them stand out from the pack. And print converters can exploit coating as a added-value feature to differentiate themselves from their competitors. Opulent UV gloss effects enhance the properties of folding cartons, plastic film and cards.

For many applications, inline coating has long since become established as a high-quality, cost-effective alternative to offline coating in special coaters or screen-printing machines. More than half of the medium- and large-format sheetfed offset presses shipped today are configured with at least one coater.

However we still find many offset printers are using wrong Anilox rollers for some of the most common coating applications. Specifying the right Anilox roller is crucial for achieving a high gloss finish. If the engraving type or cell volume is no adequate the coating will not spread evenly across the substrate before it is cured, and the finish can develop an "orange peel" look.



UV Gloss varnish printed with incorrect anilox specification for substrate type.



UV Gloss varnish printed with correct Anilox

Other factors such as dwell time, viscosity, temperature, the intensity and proximity of the UV light source and the interaction between the coating and the paper can affect the quality of the finish.

UV varnish is up to five times more viscous than aqueous coatings, this can cause some excessive foaming in the doctor blade chambers than can contribute to pin-holing and poor gloss values. As a general rule we would recommend an open channel engraving for UV varnish. The cell volume for UV varnish must always be higher than for aqueous varnish applications.

TwinFlo and UniFlo engravings are specially designed for high gloss coating applications to provide a smoother lacquer surface, increased gloss value and less orange-peel effect. Their open cell and



channel structure makes the cleaning easier and faster. They also keep clean for longer in print runs and offer higher release compared to conventional 60° engravings, providing a more efficient lacquer usage.



Stock type	Gloss values With conventional Anilox	Gloss Values with TwinFlo
SBS Stock [unprinted]	10-20	20-40
Low Gloss [satin, matte, dull]	10-30	20-40
80# Text Paper [unprinted]	30-40	40-50
Aqueous Coated Cereal Box	40-50	50-60
80# Text Paper [aqueous coated]	60-80	85
UV Coating	90-95	97+

Please contact one of our coating technicians on +44(0)161 344 5558 to help you maximize your coating results and increase your profitability.