



PRODUCT GROUP 500

Series 535

UV-Screen Printing Ink for Bottles



High glossy screen printing ink, based on solvent-free basic raw materials for decorative and functional printing of plastics (packaging's), primarily on hollow bodies based on Polyolefin (HDPE). To reach an adhesive and durable ink establishing onto polyolefin materials, pre-treatment is absolutely imperative.

In practice, following values have proven itself:

- > 38 mN/m (dyn) for Polyethylene (HDPE)
- > 43 mN/m (dyn) for Polypropylene (PP)

Most of the times, flame- or plasma treating is more effective and of longer durability than Corona. Since especially with Polypropylene applications, more and more often regenerates (recycling addition to master batches) and copolymerized plastics are being used, pre-tests regarding ink suitability are inevitably. Because of careful choice of raw materials, even requirements for applications for daily use as well as requirements regarding high chemical resistance and practical water resistance can be met. The smooth and extremely glossy surface ensures a high mechanical protection as well as an increased abrasion resistance. When designing this ink formula, attention has specially been paid to maximum machine- and production speed as well as to an easy and safe handling by its user.



SUBSTRATES

Polyolefin's, coated or pre-treated (HDPE) Copolymerized Polyolefin Rigid-PVC



USE

Application Decorative and functional application on directly printed packaging's, i.e. hollow bodies like bottles, cans, buckets, a. s. o. but also on cartridges, one-way items and shutters.



PROPERTIES, PROCESSING, DRYING AND MESH

Mesh 77-55 Y PW PET 1000 up to 165-27 Y PW PET 1000

Drying / Curing 150-200 mJ/cm2 (Technigraf Integrator)

Further Processing -



ADDITIVES

Thinner Press-ready **Addition Ratio** -

Retarder Press-ready **Addition Ratio** -



VARIOUS

Delivery Conditions 1 kg / 5 kg / 20 kg

Other Should modifications in regards to specific requirements be necessary, Printcolor offers the user appropriate UV-thinner (Series 510 017) or highly reactive initiator-cocktails Series 500-019 for white color shades and Series 500-020 for colored shades.



Disclaimer

Please thoroughly read the Material Safety Data Sheet (MSDS) prior to processing. The Material safety Data Sheets according to 91/155/EWG form, contain indications of hazardous ingredients. Exposure levels and instructions for precautions when processing, handling and storing as well as first aid. The information given in the MSDS refers to the processing as described within this technical leaflet. Above data are based on laboratory tests and field experience. All therein contained statements are to the best of our knowledge without any obligation from our side and do not discharge from testing the product by yourself. In doubtful cases, you are kindly requested to either perform your own tests or refer to our technical staff. Application, use and processing of the delivered products are beyond our control and are therefore at your own risk and responsibility. Printcolor is thus free from any guarantees or liabilities. In cases of justified complaints, Printcolor can only be made liable for the counterpart of the utilized ink system. Adding not stated products or foreign / competitors products, is solely at your own risk and liberates Printcolor of any later calls; especially in cases when damages occurred and which have been caused through use of products of foreign type. This leaflet replaces all former issues. (03/2009)