



PRODUCT GROUP 500

Series 573-039

UV-Texturing Varnish



This special UV-texturing varnish shows a haptic surface effect which is similar to “sand paper”. The system is based on UV-curable materials which are meeting the requirements for manufacturing membrane switches. The necessities of good mechanical abrasion resistance, together with enormously high chemical resistance are met by all offered structure varnishes.

Next to the receptively reached optical properties, useful modifications can also be achieved by choice of the mesh. With use of a thinner mesh you risk filtering out of the texturing ingredients together with non-reproducible surface effects. For printing of the structure varnish a mesh of 77-55 Y PW PET 1000 is recommended. To reach an optimal result we would generally recommend printing the structure varnishes with a max. speed of 2000 sheets/h.

Polymerizing energy of this UV-curable varnish is dependable on the substrate to be printed and normally lies between 250 – 450 mJ/cm². The curing conditions should be set to the substrate and the color shade. With darker substrates, curing and adhesion is normally more difficult to be reached and therefore a higher curing energy may be necessary. Due to post-curing, final adhesion of some color shades is only reached after 24 hours.



SUBSTRATES

Polycarbonate	Soft-PVC / rigid-PVC	Paper, OPP-Laminate	Polyester, pre-treated
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USE

Application	Surface finishing of credit cards and smart cards, give-aways, technical plastic items, a.s.o., membrane switches
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PROPERTIES, PROCESSING, DRYING AND MESH

Mesh	77-55 Y PW PET 1000
Drying / Curing	250-450 mJ/cm ² (Technigraf Integrator), variable depending on pigment and substrate
Further Processing	Punching, cutting



ADDITIVES

Thinner	Series 500-017	Addition Ratio	Up to 10% by weight
Retarder	-	Addition Ratio	-



VARIOUS

Delivery Conditions	1 kg / 5 kg / 20 kg
Other	Stir well before use; protect from direct light



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. (11/2009)