

Series 537

UV Screen Printing Ink for Container Printing

Series 537 high-gloss UV screen printing ink was developed for printing on 3D objects and is based on highly reactive raw materials. Thanks to its extremely high reactivity, Series 537 is especially suitable for high-speed screen printing machines running at over 100 prints per minute. The selected pigmentation ensures optimal opacity, even when using the finest mesh (180 to 200 threads per centimeter). Combined with the high gloss, this generates results similar in appearance to a piano lacquer.

The print offers excellent mechanical and chemical resistance as well as outstanding opacity. Post-cure reactions further improve chemical resistance within 24 hours. Series 537 allows the finest details and reverse type to be precisely reproduced while at the same time, it can impress with perfect full area printing. Typical applications include cartridges, plastic containers and packaging.

Applications

- › Cartridges
- › Plastic containers made of polyethylene
- › Cosmetic packaging

Substrates

Substrate	Suitability	Hints
Polyethylene, pre-treated (PE)	★★★★★	
Polypropylene, pre-treated (PP)	★★★★★	

Legend ★★★★★ Very well suited ★ Detailed pre-tests necessary

Properties / Characteristics

Feature	Rating	Hints
Alcohol and gasoline resistance	★★★★★	
Resistance to adhesives	n/a	
Block resistance	n/a	
Flexibility	★★★	
Gloss	★★★★★	High-gloss
Resistance to hand sweat	★★★★★	
Curing	★★★★★	
Light fastness	★★★	
Abrasion resistance	★★★★★	
Pigmentation	★★★	
Sieve openness	n/a	
Temperature resistance	n/a	
Moldability	n/a	
Water resistance	★★★★★	

Legend ★★★★★ Very good product properties n/a No information available
 ★ Product properties not available

Product Range

MS Basic Colors

Article	Color	HP			Article	Color	HP		
537-1105	MS light yellow	•			537-5005	MS blue	•		
537-2005	MS orange	•			537-6005	MS green	•		
537-3005	MS red	•			537-8005	MS black	•		
537-3305	MS magenta	•			537-9005	MS white	•		
537-4005	MS violet	•							

HP High pigmented

Note: all abbreviations used in this chart are explained in detail on the last page of this data sheet.

Other Colors

Special Colors	Pantone®, HKS, RAL and with customer sample		
Others	Series 537-00	ST opaque white	
	Series 537-05	ST varnish	
	Series 537-33	ST opaque black	

Additives

Thinner	Ready to print		
For exceptional cases	Series 500-017	Addition ratio	5 % by weight
Hardener	Ready to print		
For exceptional cases	Series 500-GL	Addition ratio	5 % by weight

Processing

Mesh

All commercially available polyester meshes with 180 lines per cm can be used.

Stencils

All commercially available stencils can be used.

Curing

The curing of the Series 537 depends on the layer thickness as well as on the substrate and the auxiliaries used.

Usual parameters are:

UV dryer	The energy requirements for use of a mesh 180.31 (depending on the color shade) are 100-150 mJ/cm ² (Technigraf Integrator) on a white substrate.
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Cleaning

Intermediate cleaning of stencils and squeegees should promptly be done with Series 500-BRS. Final cleaning is best be done with Series 500-URS.

Special Features & Tips

Over-printability The over-printability of Series 537 is guaranteed within 24 hours. Ideally suitable for inline printing process.

Others

Delivery 5 kg / 20 kg

Certificates / Standards www.printcolor.swiss/certificates

Shelf life Information on shelf life can be found on the cover label.

Other Stir well before use.

Basic Color Systems

HP Basic Color Mixing System with high pigmented basic colors.

Safety Information

Actual Material Safety Data Sheets according to EC-Regulation 1907/2006 are available for all products, mentioned in this data sheet.

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23.11.2017	-	T12	1

Important Information

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. This is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, such claims shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damages not caused intentionally or by gross negligence.