

**PRODUCT GROUP 500**

**Phosphorescent Signs**

**Series 573-077**

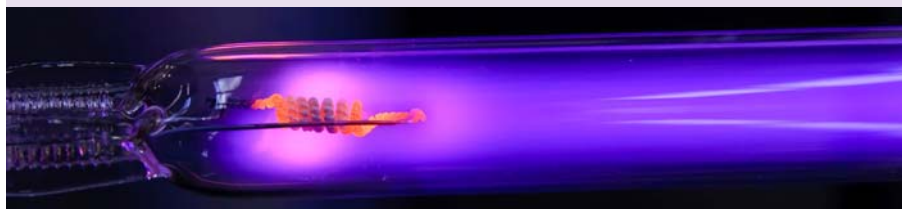
UV-Binder for active pigments

**Series 575-099**

UV-Varnish of durable elasticity

**Series 567**

Multi-purpose UV-Screen Printing Ink



These special compositions of ink, phosphorescent binder and over-lacquering varnish have specially been designed and matched to each other for production of safety relevant and optically demanding signs, i.e. emergency exit signs and other signs. Printing compositions based on these products are of excellent durable elasticity and optimal intermediate adhesion (best overprintability) of the single layers and can thus superbly be further processed.

**Series 573-077, special binder for phosphorescent inks**

This system represents a fast curing binder which has been designed for extremely high pigmented inks. Up to 70% by weight of common phosphorescent pigments can easily be blended into this binder to get an ink with excellent and stable phosphorescent effect. The color as well as the phosphorescent effect of the pigments will not negatively be influenced by the binder. Next to special wetting agents and disperse additives, the binder contains specifically acting anti-separation components which strongly reduce a separation of the liquid components and the effect pigments. The printed substrates can without difficulty be further processed. On account of the high elasticity, also punching and cutting is possible, even if the extremely high layers would indicate the contrary.

By using this binder, the customer has the freedom to blend in his own pigments. However, it is also possible to buy ready-to-use phosphorescent inks, i.e. Series 560-PHQ47/ECO.

Attention: Depending on used pigments, significant adhesion differences could occur.

**Series 575-099, protection varnish**

By means of this specially adjusted UV protection varnish, phosphorescent inks based on Series 573-077 can be over-lacquered in a lasting and high-quality way. This varnish also stands for extremely high flexibility; especially in combination with Series 573-077. The transparent system can be used as a glossy protection varnish for phosphorescent inks, but also an "anti-graffiti" effect can be reached by use of suitable additives, i.e. a combination of Series 10-03909 and Series 10-03966. Furthermore, an extremely robust, abrasion-resistant "anti-slip" effect can be achieved by adding of transparent, silicate ball-like raw material (Series 10-0534).

**Series 567, screen printing ink**

If phosphorescent inks, based on Series 573-077, shall be defined in color – as for example on most emergency exit signs with a green printing ink – so can phosphorescent inks, based on Series 573-077, be printed with our multi-purpose Series 567. Detailed application information is available from the separate Technical Data Sheet for Series 567.



**SUBSTRATES**

Soft-PVC	Rigid-PVC	Polystyrene and modifications	Coatings
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**USE**

<b>Application</b>	Plastics for displays, i.e. emergency exit signs and other signs, advertising- and promotional material, toys, a. s. o.
	Industrial and graphical purposes



### PROPERTIES, PROCESSING, DRYING AND MESH

<b>Mesh</b>	Series 573-077 (or i.e. Series 560-PHQ47/ECO)	12-140 up to 77-55 Y PW PET 1000
	Series 575-099	43-80 up to 120-34 Y PW PET 1000
	Series 567-xxx	120-34 up to 180-27 Y PW PET 1000
<b>Drying / Curing</b>	300-500 mJ/cm <sup>2</sup> (Technigraf Integrator)	
<b>Further Processing</b>	Punching, cutting, grooving	

### ADDITIVES

<b>Thinner</b>	Series 500-017	<b>Addition Ratio</b>	5-10 % by weight
	Series 500-038		5-10 % by weight

### VARIOUS

<b>Delivery Conditions</b>	1 kg / 5 kg / 20 kg
<b>Other</b>	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. (01/2011)