

Series

# PLT 6

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**Type:** solvent

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**Printing process:** pad printing

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**Ink type:** one and two-component

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**Finish:** satin

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**Materials:** Leather, Natural fabrics, Nylon (without silicon), Polyamide, Polyurethane, Rubber, Synthetic fabrics, Synthetic leather

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## Main features:

- . The PLT 6 series, used as a one component, dries physically, i.e. by evaporation of solvents.
- . Excellent elasticity and flexibility depending on thickness of printed ink layer (single print, multi-layer print).
- . Suitable for the production of slippery dry decals
- . If used as a two-component, in addition to the evaporation of solvents (physical mode), drying takes place also through chemical reaction with the relative hardener, giving the printed film better characteristics as:

- . stains solidity
- . solidity to washing at temperatures of 60 °C with common detergents
- . solidity to dry cleaning
- . good stability for outdoor prints

Because of the versatility of this ink, and the possible differences in the quality of the used supports, pre-tests are suggested. If necessary, help the adhesion of the ink modifying the surface tension of the various supports with specific treatments such as: plasma treatment, corona, flaming (physical treatments), cleaning or degreasing (chemical treatments).

It's possible to do tests even with post physical treatments.

In any case, we advise to not print on silicone material.

PLT 6 series mixed with hardener has a pot life of approx. 8h (at 20 °C).

Higher temperatures and humidity will reduce pot life (suggested temperature at 20-25 °C and low moisture content in the workplace).

Used as two-component ink, PLT 6 series has to be mixed with hardener at a specified ratio prior to processing.

Thinner is added after addition of hardener.

Leave the mixed ink pre-reacting for approx. 15 minutes prior to print.

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**Certifications:** CLP/GHS (EC 1272/2008), Conflict minerals free, EN 71-3, Reach (EC 1907/2006), RoHS

The EN 71:3 Directive is valid for standard shades of one component inks, two component inks, HD shades and for all not standard shades which do not contain metallic shades, metallic pastes or fluorescent pigments or inks.

In order to clarify any doubt on not standard shades, it is always recommended to provide us a specific request.

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**Eco-sustainability** (free of): Alogens, Animal origin ingredients, Azo dyes, Bisphenol A (BPA), Formaldehyde, G-B Ester, Latex, Melamine, Persistent organic pollutants, Phthalates (listed in RoHS directive)

Note: shades in the fluorescent color chart contain formaldehyde.

Note: all our inks are formulated with non carcinogenic aromatic naphthas as the benzene content is below than 0.1% by weight. IPA contamination are also possible but always below the limit of 1000 ppm.

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**Outdoor resistance** (years): 4

Suitable for outdoor applications for periods not exceeding 3-4 years. The used pigments have a solidity from 6 to 8 DIN.

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If you want to increase the outdoor solidity, it's recommended to add 5-7% of UV adsorber to the ink.

If the printed film is heated in an oven at 80 °C for about 10 minutes, the polymerization is completed within 48 hours.

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PLT 6 series dries physically by evaporation of solvents or through chemical reaction.

Drying times depend on various factors:

- . thickness of printed ink layer (single print, multi-layer print).
- . type and amount of thinners/retarders used.
- . type of oven
- . drying temperature
- . type of substrate on which the ink is deposited.

Ink dries physically by evaporation of solvents:

- . 15-20 minutes at room temperature (depending on local conditions)
- . 60 sec at 50 °C in an air circulation oven

(The test performed in our laboratory was carried out under the following conditions: 8 mt/min, cliché at 36 microns, medium thinner PLK at 15%, air circulation oven).

Two-component drying by polymerization:

When the Series PLT 6 is added with the relative hardener, at the beginning the ink dries physically, followed by the polymerization reaction which takes place at room temperature (20 °C) in at least 5-7 days.

If the printed film is heated in an oven at 80 °C for about 10 minutes, the polymerization is completed within 48 hours.

Please refer to the color charts. The System are 11 colour shades for mixing of RAL, PMS and HKS colours.

The metallic shades are available only by mixing the relative pastes with the Transparent Base 70 TR.

Gold paste	75	10 -20%
Gold paste	76	10 -20%
Gold paste	77	10 -20%
Bronze paste	78	10 -20%
Silver paste	79 -050	10 -15%

The metallized pastes composed with the relative transparent base 70 TR, due to their particular composition, can oxidize. The pot -life of the compounded METALLIC PASTES is about 8 working hours.

Ink System shades are:  
1080 yellow, 1081 magenta, 1082 blue, 1083 black, TP paste (CMYK), necessary for making four-color prints.

In the range are also included the following shades:

- 160 HD Opaque white
- 165 HD Opaque black

Auxiliaries and additives :		
PLK medium thinner	20%	
PLD slow thinner	20%	
Fast thinner	20%	
PLH hardener	10%	
PLHN hardener	10%	
Retarder paste	10%	max
Levelling agent	1,5%	
Universal antifoam agent	0,5%	
Antisilicone/s	0,5%	

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UV Adsorber	8%	
NPT matting powder	2%	6% max

Use of the hardeners:

PLH: to be used for printing fabrics in general.

PLHN: gives elasticity. Suitable for printing elastic or flexible substances, it's also recommended for items that must be exposed to the outside.

**Ink removal:**

PLDL solvent

**STORAGE:**

Please keep the cans in a dark place, at temperature of 15-25 °C.  
If the recommended temperature is higher than the suggested one or the cans are not completely closed, the shelf life and the qualities are drastically reduced.

**CLASSIFICATION:**

Before using this ink, consult the relevant safety data sheets available.  
The safety data sheets provided comply with the **REACH regulation (EC 1907/ 2006)**.  
The hazard classification and related label ling are compliant with the **CLP / GHS regulation (EC 1272/ 2008)**.

**NOTE:**

Our technical consultancy activity, carried out orally, in writing or through tests or experiments, takes place on the basis of our best knowledge.  
However, the same must be considered as information without any binding value, also as regards any third party industrial property rights.  
This does not exempt the customer from performing his own checks on the products supplied by us in order to estimate the suitability or otherwise of the procedures and for the purposes intended.  
The application, use and transformation of the products take place outside our control possibilities and therefore fall under the exclusive responsibility of the customer.