

Series

PLT 13

Type: solvent

Printing process: screen printing, pad printing

Ink type: two-component

Finish: glossy

Materials: Natural fabrics, Silicone materials (in general), Synthetic fabrics

Suitable also for making non-slip socks.

Main features:

Suitable to be used in screen or pad printing system.

The PLT 13 Series ink is formulated with a mixture of specific silicone substances to obtain:

- . glossy appearance
- . maintaining flexibility at temperatures range of -50 °C to 200 °C
- . pot life from 8 to 12 hours at temperatures of 20-25 °C
- . excellent elasticity
- . soft to the touch even when applied with high thickness systems
- . good opacity
- . overprintable only with himself and not with other ink series.

The PLT 13 Series ink can be printed with silk-screen printing mesh from 12 to 77.

To obtain relief effects, use cliché from 12 to 34 wires and thickened.

To get flat prints, use mesh from 45 to 77.

The PLT 13 Series ink storage in the warehouse must not exceed 30-35 °C.

If exposed for a long time to higher temperatures, problems of viscosity increase or gelling may occur.

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.

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

Note: shades in the fluorescent color chart contain formaldehyde.

Note: inks are formulated without aromatics naphthas, potential IPA contaminations are minimal.

Outdoor resistance (years): 5

Suitable for outdoor application.

The pigments used have a solidity from 7 to 8 DIN.

In case of mixing with the transparent bases 70 TR or TP, or with the white 160 or 60 BN, the light fastness and atmospheric agents decrease.

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

Drying process: oven

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The PLT 13 Series ink dries and polymerizes only at the following temperatures and in the pre-established times:

130 °C	7 -8 minutes
160 °C	3 -5 minutes
180 °C	2 -3 minutes

The polymerization time and temperatures depend on:

- . quantity and type of thinner used
- . thickness of printed ink and layers
- . type of oven and speed of the carpet
- . nature of the silicone support that must be printed.

Mechanical and chemical solidity:

Flexibility (Elasticity or Bending)	maintained during the time
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Excellent flexibility even at temperatures between -50 °C and + 200 °C.

Good chemical resistance.

Long pot-life if not combined with the relative hardener.

Colours range:

110	111	115	121	122	124	130	132	136	140
150	160	165	165 S	160 HD	10 GL	11 GS	12 AR	21 RS	22 RC
25 MG	27 VT	32 BL	40 VR	60 BN	65 NR	70 TR			

Please refer to the ink color charts.

The ink system are 12 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 metallic 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.

Auxiliaries and additives:

PLB fast thinner	8%	
PLH 13 hardener		see notes below
Puffing paste	3%	max
UV Adsorber	8%	
Matting powder	2%	6% max

PLH 13 hardener:

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INK SYSTEM shades	2,5%
White 60 BN and Glossy Inks	2%

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 labelling 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.