

Series **3000**


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 Type: solvent
 

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 Printing process: pad printing
 

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 Ink type: two-component
 

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 Finish: glossy
 

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 Materials: ABS, Aluminium, Epoxy resins, Iron, Lacquered surfaces, Metal (in general), Mylar, Polyamide, Polycarbonate, Polymethacrylate (PMMA), Polystyrene, rigid PVC, SAN, Self-adhesive PVC, Stainless steel, treated Ecoallene, treated PETG, treated Polyester, treated Polyethylene (HD-PE, LD-PE), treated Polypropylene, Wood
 

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Main features:

- . Glossy appearance
- . Good printability
- . Soluble during printing
- . Moderate solidity for prints that must be exposed to the outside
- . Good chemical-physical solidity
- . Moderate coverage

Because of the versatility of use of this ink, and the possible differences in the quality of the supports used, 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.

To be used only by adding the relative hardener at a specified ratio prior to processing.

Thinner is added after addition of hardener.

The mixed ink should be allowed to pre-react for approx. 15 minutes prior to print.

The pot life of the ink is valid for a specified period of time, up to 8h/20°C.

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

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

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The EN 71:3 Directive is valid for standard shades of one component inks, two component inks, Ink system and Process colors, 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): Animal origin ingredients, Azo dyes, Bisphenol A (BPA), Cyclohexanone, Formaldehyde, G-B Ester, Latex, Melamine, Persistent organic pollutants, Phthalates (listed in RoHS directive)
 

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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 possibile but always below the limit of 1000 ppm.

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 Outdoor resistance (years): 4
 

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Suitable for outdoor applications for periods not exceeding 3-4 years.

The pigments used have a solidity from 6 to 8 DIN.

1000H-N (10%) hardener is recommended for outdoor applications.

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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.

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

Drying process: 10 minutes at room temperature

3000 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:

- . 10-15 minutes at room temperature (depending on local conditions)
  - . 20-30 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, clichet at 36 microns, medium thinner 1000 DM at 15%, air circulation oven).

The polymerization (chemical reaction process) of the ink occurs about 15 minutes after the addition of the catalyst.

The polymerization times depend mainly on the temperature.

At a minimum temperature of 20°C, series 3000 ends its cross-linking process in about 6-7 days.

An important increase of temperature accelerates the cross-linking process.

At a temperature of 80°C (film obtained with a 36 micron clichet, a dilution with a medium thinner of 1000 DM at 15%, 10 minutes inside oven) we obtain a film with a high degree of polymerization and with a maximum of solidity.

Mechanical and chemical solidity:

Corrosion	
Cosmetics	
Detergents	
Gasoline	
Greases	
Oils	
Surface hardness (Abrasion)	

The tests must be carried out 5-6 days after printing

Colours range: EXTRA - M, INK SYSTEM, QUADRICROMIA

110	111	112	115	117	120	121	122	124	130
131	132	133	134	136	140	141	142	150	151
160	165	10 GL	11 GS	12 AR	21 RS	22 RC	25 MG	27 VT	32 BL
40 VR	60 BN	65 NR	70 TR	1080	1081	1082	1083	TP	

Please refer to the Glossy, Metallic, Fluorescent and Ink System 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 3000 70 TR.

Gold paste 75 10-20%

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

The metallised pastes composed with the relative transparent base 3000 70 TR, due to their particular composition, can oxidize.

The pot-life of the compounded METALLIC PASTES is about 8 working hours.

In the Ink System color chart are present the shades: 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:**

1000 DM medium thinner	20%	
1000 DL slow thinner	20%	
1000 DR fast thinner	20%	
1000H-N Green hardener	8%	for outdoor applications. diisocyanate content < 0,1%
1000H-N hardener	17%	
1000H-N-00 hardener	12%	(concentrate)
Retarder paste	10%	max
M 2000/S levelling agent	1%	
Universal antifoam agent	1,5%	
Antisilicone/s	1,5%	
UV Adsorber	8%	
Antistatic/s	1,5%	
NPT matting powder	2%	6% max

**Ink removal:**

DACS solvent

Lavaggio telai solvent

Aprimaglia Spray

**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).

**OTHER INFORMATION:**

For more information on SERICOM ITALIA srl products, refer to the website [www.sericom.it](http://www.sericom.it)

**NOTE:**

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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.