

Series

1009

Type: solvent

Printing process: pad printing

Ink type: two-component

Finish: glossy

Materials: Aluminium, Ceramic, Chrome metal, Glass, Lacquered surfaces, Metal (in general), Stainless steel, treated Polyacetal (POM) (hard-plast)

Main features:

To obtain a good adhesion on glass, it's absolutely necessary to clean the material and clean any residues of graphite, silicone, dust, grease or fingerprints.

We recommend a preliminary pre-treatment (flame) before production.

- . Good coverage
- . Glossy finish
- . Excellent printability
- . Excellent solidity to acids, bases, greases, many organic solvents and oils.
- . Excellent mechanical resistance
- . Due the resin that composes the ink, it is suggested for short-term outdoor applications.

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).

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, 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.

Eco-sustainability (free of): Alogens, Animal origin ingredients, Azo dyes, 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 possibile but always below the limit of 1000 ppm.

Outdoor resistance (years): 1

Not suitable for outdoor applications.

The used pigments have a solidity from 6 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.

Fluorescent shades (refer to the FLUO color chart) are formulated with special pigments which, due to the molecular constitution, do not guarantee high light solidity and are easily decomposed by electromagnetic radiation.

Outdoor exposure cannot be longer than two months.

Drying process: 20 minutes at room temperature

1009 series dries physically by evaporation of solvents or through chemical reaction.

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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)
- . 30-40 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).

Two-component drying by polymerization:

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 1009 ends its cross-linking process in about 6-7 days.

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

At a temperature of 140°C (film obtained with a 36 micron clichet, a dilution with a medium thinner of 1000 DM at 15%, 30 minutes inside oven) we obtain a film with a high degree of polymerization and with a maximum of solidity.

Mechanical and chemical solidity:

Acids	excellent
Alcohol	excellent
Aliphatic organic solvents	excellent
Aromatic organic solvents	excellent
Bases	excellent
Brake oil	excellent
Detergents	commonly used in dishwashers
Diesel	excellent
Gasoline	excellent
Greases	excellent
Washings	about 300 cycles in the dishwasher in standard conditions of use, 45-60°C with low-alkaline detergents. It is necessary to pretreat the material and the printed ink film must be tempered for 30 min at 140°C.
Water	good

The laboratory tests were carried out on pretreated material with a completely polymerised film (140°C per 30 mins), using a pad printing clichet at 36 microns, medium thinner 1000 DM at 15%.

Or at room temperature (20°C) after 6-7 working days.

Colours range: EXTRA - M, HD, INK SYSTEM, METALLIZZATI, QUADRICROMIA

110	111	112	115	117	120	121	122	124	130
131	132	133	134	136	140	141	142	150	151
160	165	165 S	110 HD	111 HD	112 HD	115 HD	120 HD	121 HD	122 HD
130 HD	136 HD	140 HD	160 HD	165 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	75 RE	75 RE GLITTER	76 RE
76 RE	77 RE	77 RE	78 RE	78 RE	79-050	1080	1081	1082	1083

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GLITTER		GLITTER		GLITTER					
TP									

Please refer to the Glossy, Metallic, Fluorescent, Opaque (HD) 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 1009 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 metallised pastes composed with the relative transparent base 1009 70 TR, due to their particular composition, can oxidize.

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

The other metallic shades are ready to use.

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:

1000 DM medium thinner	20%	
1000 DL slow thinner	20%	
1000 DR fast thinner	20%	
1000H-GL hardener	5%	
Retarder paste	10%	max
M 2000/S levelling agent	1,5%	
Universal antifoam agent	0,5	
Antisilicone/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.

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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**

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.