INNOVATIVE COLORS sericom

Series 1008

Type: solvent

Printing process: pad printing

Ink type: one-component

Finish: glossy

Materials: Aluminium, Aminoplastic resins (hard-plast), Brass, Ceramic, Chrome metal, Copper, Glass, Iron, Lacquered surfaces, Metal (in general), Phenolic resins (hard-plast), Polyamide, Stainless steel, treated Polyacetal (POM) (hard-plast)

Main features:

Oven Curing ink.

In order to achieve mechanical and chemical resistance, 1008 has to be oven-cured.
. Glossy finish
. Prints show good mechanical abrasion resistance as well as a high chemical resistance
. The ink is suitable for outdoor applications
. Good coverage

Because the versatility of use of this ink, and the possible differences in the quality of the supports used, pre-tests are suggested.

If necessary, we recommend to follow the pre/post printing tips.

. Cleaning / degreasing
. Flaming / corona / plasma
. Post treatment (flaming).

To obtain a good adhesion on the glass (cosmetics, baby bottles, glassware for household items.) it's absolutely necessary to make sure that it is perfectly clean and that it does not contain residues of graphite, silicone, dust, grease or fingerprints.
For this reason we recommend a preliminary pretreatment (flame or flame lined with Pyrosil silane method) before production.

To obtain the maximum adhesion, the substrate to be printed must have a surface tension of 40 N/m. (at least)

For a good storage of closed can ink, exposure to temperatures below or above 25-35°C and direct exposure to sunlight should be avoided.
Even after use, the can must be closed again to prevent the evaporation of the solvents and a increased of viscosity.

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, Bisphenol A (BPA), Cyclohexanone, 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): 5

Suitable for outdoor application.

INNOVATIVE COLORS sericom

Series 1008

The used pigments 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 5-7% of UV adsorber to the ink.

Drying process: oven

The 1008 series need to be oven-cured to obtain the complete polymerization and dry of printed film.
Temperatures and curing times are as follows:

100°C 30-40 minutes (Moderate chemical-physical solidity)
120°C 15-20 minutes (Good chemical-physical solidity)
150°C 7 minutes (Maximum solidity obtainable)

Above 160°C, yellowing can occur which could pollute the basic colors, which is very evident in whites and in the transparent base.

Mechanical and chemical solidity:

Acids	weak
Alcohol	ethyl
Bases	weak
Cosmetics	
Detergents	commonly used in dishwashers
Flexibility (Elasticity or Bending)	excellent
Gasoline	
Greases	
Oils	organic and inorganic
Washings	excellent (about 300 cycles in the dishwasher in standard conditions of use, 45-60°C with low-alkaline detergents)
Water	

Low water vapor permeability, low water absorption, flexible.
The solidity tests must be carried out 5-6 days after printing, with a complete polymerization of the ink.
Resistances should not be checked before completion of oven curing. Allow a cooling time of at least 1 hour prior to checking resistances.

Colours range: EXTRA - M, INK SYSTEM, QUADRICROMIA

110	111	115	120	121	122	124	130	132	133
136	140	141	151	160	165	170	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 and Ink System ink color charts.
The Ink 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 1008 70 TR.

Gold paste 75 10-20%

Gold paste 76 10-20%

INNOVATIVE COLORS sericom

Series 1008

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 1008 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.

Auxiliaries and additives:

1000 DM medium thinner	20%	
1000 DL slow thinner	20%	
1000 DR fast thinner	20%	
Retarder paste	10%	max
M 3000 levelling agent	0,5%	
Universal antifoam agent	0,2%	
Antisilicone/s	0,2%	
UV Adsorber	8%	
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**

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.