

Series

2003

Type: solvent**Printing process:** pad printing**Ink type:** one-component**Finish:** glossy

Materials: ABS, Cardboard, Leather, Paper, Polymethacrylate (PMMA), Polystyrene, rigid PVC, SAN, Self-adhesive PVC, Styro-foam, Synthetic leather, treated PETG, treated Polyester, treated Polyethylene (HD-PE, LD-PE), treated Polypropylene

Not suitable for very plasticized PVC

Main features:

Created to solve the problems of pad printing on injection-molded materials, such as Polystyrene, or on other plastic materials sensitive to tension cracks due to the solvents present inside the ink.

- . Glossy appearance
- . Good solidity to cosmetics (creams)
- . Good stability for outdoor prints
- . Moderate coverage

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): 4

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.

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: 10 minutes at room temperature

2003 series dries physically by evaporation of solvents.

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

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- . 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)
- . 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, clichet at 36 microns, medium thinner 2003-DM at 15%, air circulation oven).

Mechanical and chemical solidity:

Alcohol	20 passes with 1 Kg of weight
Cosmetics	that do not contain alcohol

Colours range: EXTRA - M, INK SYSTEM, QUADRICROMIA

110	111	115	120	121	122	124	130	132	133
136	140	141	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 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 2003 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 2003 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

165 S Non magnetic black

Auxiliaries and additives:

2003-DM medium thinner	20%	
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VH slow thinner	20%	
VS fast thinner	20%	
Retarder paste	10%	max
M 160 conc. levelling agent	0,5%	
Universal antifoam agent	1%	
Antisilicone/s	1,5%	
UV Adsorber	8%	
Antistatic/s	1,5%	
NPT matting powder	2%	6% max

Ink removal:

DACS 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.