

Series

2020-GL

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:

In order to obtain a good adhesion on glass it is absolutely necessary to clean it and that it does not contain residues of graphite, silicone, dust, grease or fingerprints.

For this reason, we recommend a preliminary pre-treatment (flaming) before production.

- . Good opacity
- . Excellent brightness
- . Excellent printability
- . Excellent solidity to acids, bases, greases, many organic solvents and oils.
- . Excellent mechanical resistance
- . Not very stable for the printing of products that must be exposed outdoors for long periods

Pot-life of the ink with hardener at room temperature is about 8 working hours. High temperatures and excess of humidity can reduce the time.

Pot-life depends on environmental conditions, especially on temperature and humidity (ideal temperature of 20-25°C and low humidity in the work environment).

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 prints that must be exposed outdoors for long periods.

2020-GL Series is formulated using pigments with a solidity of 6-8 DIN.

In case of mixing with the transparent base 70 TR or TP or with the white 160 or 60 BN, the resistance to light and atmospheric agents decreases.

Drying process: 20 minutes at room temperature

2020-GL Series dries physically and by chemical reaction.

Series

2020-GL

Drying time depends on:

- . thickness of the deposited film
- . type of used thinner
- . type of oven
- . temperature and times of use
- . type of support on which the ink is deposited.

Physical drying:

15-20 minutes at room temperature (depends on local conditions).

30-40 sec at 50°C in an air circulation oven. (The test performed in our laboratory was carried out in the following conditions: 8 mt /min and a deposited ink thickness of 6.5 microns, medium thinner 1000 DM at 15%, air circulation oven).

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

Polymerization time depends above all on the temperature, at a minimum temperature of 20°C, the 2020-GL series finishes its cross-linking process in about 6-7 days.

A significant increase of temperature accelerates the cross-linking process.

At a temperature of 140°C with a film obtained of 6.5 microns, dilution with medium thinner 1000 DM and 30 minutes in the oven, we obtain a film with a high 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 pre-treat the material and reticulate the print at 140°C for 30 minutes.
Water	good

Lab tests were performed on treated material with fully polymerized film (140°C for 30 minutes), film thickness of 6.5 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	120	121	122	124	130	131
132	133	134	136	140	141	142	150	151	160
165	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	79-050	1080	1081	1082	1083
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 2020-GL 70 TR.

Series

2020-GL

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 2020-GL 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.

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.

Auxiliaries and additives:

1000 DM medium thinner	20%	
1000 DL slow thinner	20%	
1000 AE fast thinner	20%	
1000H-SG hardener	10%	
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.

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.

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Series

2020-GL

The application, use and transformation of the products take place outside our control possibilities and therefore fall under the exclusive responsibility of the customer.