

Series

CCS

Type: solvent

Printing process: screen printing

Ink type: one-component

Finish: glossy

Materials: ABS, rigid PVC, Self-adhesive PVC

The CCS Series has been formulated to be used in the credit card manufacturing industry. However, it is also possible to print the material listed

Main features:

- . Does not contain silicones
- . Suitable for printing ID in single or multi-layer: (phone cards, personalized cards for clubs, smart cards...)
- . Good lamination
- . Glossy appearance
- . Good coverage
- . Good elasticity

We suggest to not use post-treated charges, waxes, silicones, as they can pollute the ink and create serious lamination problems.

Moreover, given the complexity of the application (lamination of plastic substances) and the different characteristics of the plastic materials used, it's suggested to carry out preventive tests before production.

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): Animal origin ingredients, Aromatic Hydrocarbons, Azo dyes, Bisphenol A (BPA), Formaldehyde, G-B Ester, Latex, Melamine, PAH, Persistent organic pollutants, Phthalates (listed in RoHS directive)

Note: shades in the fluorescent color chart contain formaldehyde.

Note: inks are formulated without aromatics naphthas, potential IPA contaminations are minimal.

Outdoor resistance (years): 1

Not suitable for long outdoor applications.

The pigments used 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.

If you want 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

CCS 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
-

Series

CCS

- . drying temperature
- . type of material in which the ink is printed.

Ink dries physically by evaporation of solvents:

- . 10 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: speed 8 mt/min, 120.34 screen printing mesh, medium thinner Diluente Vinilico 15%, air circulation oven).

Mechanical and chemical solidity:

Alcohol	
Flexibility (Elasticity or Bending)	

The printed film of the CCS Series has a good elasticity, a moderate surface hardness H

Colours range: HD, INK SYSTEM, METALLIZZATI, QUADRICROMIA, VARIE

160 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	76 RE	77 RE	78 RE	79-050	1080	1081
1082	1083	TP	BASE PANNELLO FIRMA PVC						

Please refer to the Metallic, Fluorescent and Ink System ink color charts.

The Ink System are 12 colour shades for mixing of RAL, PMS and HKS colours.

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.

The 75, 76, 77, 78 gold pastes are not recommend the use for lamination.

Due to the different characteristics of the plastic materials used and the lamination systems, it's always suggest to carry out preventive tests before production.

Auxiliaries and additives:

VINILICO medium thinner	15%	
VH slow thinner	15%	
XF-DR fast thinner	15%	
Universal antifoam agent	0,5%	
Antisilicone/s	0,5%	
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).

Series

CCS

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.