

Series

HP-C

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 Type: solvent

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 Printing process: screen printing

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 Ink type: one and two-component

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 Finish: satin

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 Materials: Leather, Natural fabrics, Nylon (without silicon), Polyamide, Polyurethane, Rubber, Synthetic fabrics, Synthetic leather

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 Main features:

DOES NOT CONTAIN CYCLOHEXANONE AND NAPHTHA

ECO-PASSPORT COMPLIANT INK

- . The HP-C series, used as a single-component, dries physically, i.e. by evaporation of solvents.
- . Excellent elasticity and flexibility depending on thickness of printed ink layer (single print, multi-layer print).
- . If used as a two-component, in addition to the evaporation of solvents (physical mode), drying takes place also through chemical reaction with the relative hardener, giving the printed film better characteristics as:

- . stains solidity
- . solidity to washing at temperatures of 60°C with common detergents
- . solidity to dry cleaning
- . good stability for outdoor prints.

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

If necessary, help the adhesion of the ink modifying the surface tension of the various supports with specific treatments such as: plasma treatment, corona, flaming (physical treatments), cleaning or degreasing (chemical treatments).

It's possible to do tests even with post physical treatments.

In any case, we advise to not print silicone material.

HP-C series mixed with hardener has a pot life of approx. 8h (at 20°C).

Higher temperatures and humidity will reduce pot life (suggested temperature at 20-25°C and low moisture content in the workplace).

Used as two-component ink, HP-C series has to be mixed with hardener at a specified ratio prior to processing.

Thinner is added after addition of hardener.

The mixed ink should be allowed to pre-react for approx. 15 minutes prior to print.

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 Certifications: CLP/GHS (EC 1272/2008), Conflict minerals free, Eco Passport, 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.

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

Note: shade 160 HD-TG contains halogens.

Note: shades in the fluorescent color chart contain formaldehyde.

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

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Outdoor resistance (years): 4

Suitable for outdoor applications for periods not exceeding 3-4 years.

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 5-7% of UV adsorber to the ink.

Drying process: 15 minutes at room temperature

HP-C series dries physically by evaporation of solvents or through chemical reaction.

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:

- . 15-20 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, 120.34 screen printing mesh, medium thinner HP-C-DM at 15%, air circulation oven).

Two-component drying by polymerization:

When the Series HP-C is added with the relative hardener, at the beginning the ink dries physically, followed by the polymerization reaction which takes place at room temperature (20°C) in at least 5-7 days.

If the printed film is heated in an oven at 80°C for about 10 minutes, the polymerization is completed within 48 hours.

Mechanical and chemical solidity:

Detergents	normally used for dry cleaning
Flexibility (Elasticity or Bending)	
Mechanical stress (Impacts)	
Washings	up to 60°C

The chemical-physical resistances depend above all on the support on which the ink is printed. In any case, the best chemical resistance, is obtained by adding the relevant hardener. If the fabrics printed with the HP-C series are ironed at average temperatures (cotton, synthetic fibers) they are not altered.

If HP-C series is used as a two-component, the tests must be carried out 5-6 days after printing at room temperature. Otherwise, heat at 80°C for about 10 minutes and run the tests after 24 hours.

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 HD	160 HD-010	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-NC	1080	1081	1082
1083	TP								

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Please refer to the Glossy, Metallic, Fluorescent 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 HP-C 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 metallic pastes composed with the relative transparent base HP-C 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.

#### Auxiliaries and additives:

HP-C-DM medium thinner	15%	
HP-C-DL slow thinner	15%	
HP-C-DR fast thinner	15%	
XFH-N Green hardener	5%	for outdoor applications. isocyanate content < 0,1%
XFH hardener	10%	
XFH-N hardener	10%	for outdoor applications
Retarder paste	10%	max
M 2000/S levelling agent	1,5%	
Universal antifoam agent	0,5%	
Antisilicone/s	0,5%	
UV Adsorber	8%	
NPT matting powder	2%	6% max

All auxiliaries and additives in the list are CYCLOHEXANONE FREE

#### 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](http://www.sericom.it)

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## 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.