

Series

UV-T 337

Type: UV traditional

Printing process: pad printing

Ink type: one and two-component

Finish: glossy

Materials: Aminoplastic resins (hard-plast), Cellulose acetate, Lacquered surfaces, Phenolic resins (hard-plast), Polyamide, Polycarbonate, Polystyrene, rigid PVC, Self-adhesive PVC, treated PETG, treated Polyacetal (POM) (hard-plast), treated Polyester, treated Polyethylene (HD-PE, LD-PE), treated Polypropylene

For hard-plasts a pretreatment of the material is necessary.

Due to the wide range of applications, it is always recommended to carry out preventive tests before production

Main features:

One and two-component ink

- . Doesn't contain NVP (N-vinyl-2-pyrrolidone)
- . Medium-high reactivity
- . Glossy finish
- . Medium viscosity pseudo-plastic ink
- . Excellent printability
- . Good abrasion resistance
- . With the addition of the relative hardener, good chemical-physical resistance are obtained.

Due to 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.

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, 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): 1

Not suitable for outdoor applications for long period.

The pigments used have a solidity from 6 to 8 DIN.

Drying process: UV

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The UV-T 337 Series ink solidifies (polymerizes), only with UV radiation (photo-initiation). The total polymerization of the ink takes place largely within a wide range of energy emission. Polymerization also depends on the substrate on which it is printed, the thickness of the ink, the speed of the conveyor belt and the lamps used.

The wavelength (energy) required for photo-initiation goes from 250-400 nm (ideal 365 nm) obtainable with a mercury pressure lamp of 80-200 W/cm. At a tape speed of 10 mt/mi. To speed up the curing process, add the ink with the photo-initiator 94 F.

Mechanical and chemical solidity:

Acids	as two-components
Alcohol	as two-components
Bases	weak (as two-components)
Gasoline	as two-components
Surface hardness (Abrasion)	

The surface hardness of 2H gives the ink excellent mechanical and abrasion characteristics.

Suitability tests must be carried out at least 2-3 days after the print.

To obtain maximum adhesion it is important to take into consideration the surface tension of the substrate, which must be greater than 38 N/m as the minimum limit. Ideal value: > 40 N/m

Colours range: EXTRA - M, HD, INK SYSTEM, METALLIZZATI, QUADRICROMIA

160	165	170	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	79-050	1080	1081	1082
1083									

Please refer to the 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 UV-T 337 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 UV-T 337 70 TR, due to their particular composition, can oxidize.

The pot-life of the compounded METALLIC PASTES is about 5-6 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.

The shade 160 HD white is also included.

Auxiliaries and additives:

1000 DM medium thinner	15%
1000 DL slow thinner	15%

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1000 DR fast thinner	15%	
1000H-N Green hardener	6%	for outdoor applications. diisocyanate content < 0,1%
1000H hardener	6%	
UV 94 F photoinitiator	2,5%	5% max
UV/N levelling agent	0,8%	
UV-CL adhesion promoter	2,5%	5% max
Antistatic UV	1%	

The pot-life of the added ink with hardener is 8 working hours, at room temperature.

Ink removal:
 DACS solvent
 Aprimaglia Spray

It does not oxidize steel plates

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.