

Series **TM**

Type: solvent

Printing process: screen printing

Ink type: one-component

Finish: satin

Materials: ABS, Coated paper, Membrane keyboards, Polycarbonate, Polystyrene, rigid PVC, SAN, Self-adhesive PVC, treated Polyester

Main features:

Thermoplastic ink.

- . Good printability
- . Quick in drying
- . Satin, velvet appearance
- . Good solidity to alcohol
- . Good flexibility
- . Good scratch resistance
- . Suitable for thermoforming the keys of membrane keyboards
- . Resistant to the double-sided adhesives normally used for the production of membrane keyboards
- . Does not affect the adhesive power of the double-sided adhesive applied directly to the TM Series ink.

Due to the complexity of the applications 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, Azo dyes, Bisphenol A (BPA), 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): 2

Not suitable for long outdoor applications.

The used pigments 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: 10 minutes at room temperature

TM series dries physically by evaporation of solvents.

Drying times depend on various factors:

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- . Thickness of printed ink layer (single print, multi-layer print).
- . Type and amount of thinners/retarders used.
- . Type of oven
- . Drying temperature
- . The type of material which the ink is printed.

Ink dries physically by evaporation of solvents:

- . 10-15 minutes at room temperature (depending on local conditions)
 - . 30-45 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	excellent
Gasoline	excellent
Surface hardness (Abrasion)	HB

Suitable for the usual forming of the PC or Polyester used in the field of membrane keyboards.

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

110	111	115	120	121	122	124	130	132	133
136	140	141	151	160	165	160 HD	165 HD	160/79 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	79/72	TP							

Please refer to the Matt, 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 TM 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 TM 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

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165 S Non magnetic black

Auxiliaries and additives:

VINILICO medium thinner	15%	
VH slow thinner	15%	
XF-DR fast thinner	15%	
Retarder paste	10%	max
M 2000/S levelling agent	0,2%	
Universal antifoam agent	0,4%	
Antisilicone/s	0,4%	
UV Adsorber	8%	
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.

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