

Series

XFA

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Type: solvent

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Printing process: screen printing

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Ink type: two-component

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Finish: glossy

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Materials: Aluminium, Lacquered surfaces, Metal (in general), Polymethacrylate (PMMA), treated Ecoallene, treated PETG, treated Polyethylene (HD-PE, LD-PE), treated Polypropylene, Wood

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Main features:

- . Quick drying time
- . Excellent resistance to chemicals and, in particular, to water
- . Excellent adhesion
- . High print performance
- . Glossy appearance
- . Easy to use
- . Pseudo plastic ink
- . Good coverage
- . Excellent brilliance
- . Good chemical-physical fastness

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.

To obtain the characteristics listed above, the related hardeners must be added to the ink:

XFH-GL-03 (fast) in the percentage of 7-10% (7% in the case of overprints).

XFH-GL-02 (slow) in the percentage of 10%.

The hardeners can be mixed together to obtain different polymerization and pot-life results.

The heat helps the almost immediate polymerization of the XFA ink (about 80°C). Some PE products were tested at the exit of the oven, after 4-5 minutes, with good fastness to rubbing and nitro solvent.

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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.

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Eco-sustainability (free of): Alogens, Animal origin ingredients, Azo dyes, Bisphenol A (BPA), Cyclohexanone, G-B Ester, Latex, 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.

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Outdoor resistance (years): 2

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

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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 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

XFA 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:

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

Two-component drying by polymerization:

The polymerization (chemical reaction process) of the ink occurs about 15 minutes after the addition of the hardener.

The polymerization times depend mainly on the temperature.

At a minimum temperature of 20°C, Series XFA ends its cross-linking process in about 6-7 days.

An important increase of temperature accelerates the cross-linking process.

At a temperature of 80-90°C (film obtained with a 120.34 screen printing mesh, a dilution with a medium thinner of DILUENTE VINILICO at 15%, 10 minutes inside oven) we obtain a film with a high degree of polymerization and with a maximum of solidity.

Mechanical and chemical solidity:

Alcohol	
Cosmetics	
Detergents	
Gasoline	
Greases	
Oils	
Surface hardness (Abrasion)	
Water	

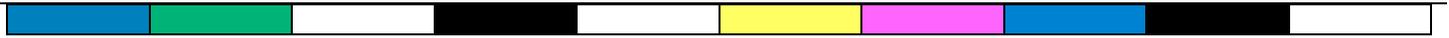
The laboratory tests were carried out with a fully polymerized film (10 minutes in a muffle at 80°C), using a screen printing clichet with 120.34 mesh, medium thinner VINILICO THINNER at 15%. Or at room temperature (20°C) after 6-7 days working.

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

110	111	112	115	117	120	121	122	124	130
131	132	133	134	136	140	141	142	150	151
160	165	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	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 XFA 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 XFA 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

#### Auxiliaries and additives:

VINILICO medium thinner	15%	
1000 DR fast thinner	15%	
XFH-GL-02 slow hardener	10%	
XFH-GL-03 fast hardener	10%	(7% in the case of overprints)
Retarder paste	10%	max
M 2000/S levelling agent	0,5%	
Universal antifoam agent	0,5%	
Antisilicone/s	0,5%	
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](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.