

Series

552-5

Type: solvent

Printing process: pad printing

Ink type: one-component

Finish: glossy

Materials: plasticized PVC, rigid PVC

Ink suitable for pad printing of PVC balls

Main features:

The EFOR 552-5 series has been formulated to solve the problems of pad printing on PVC balls. The main features are:

- . Elasticity
- . Abrasion resistance
- . Medium coverage
- . Good printability
- . Quick drying
- . Glossy appearance
- . Solvable during printing
- . Possibility of use with the spray system using the relative OLVSP thinner
- . Good barrier to the migration of plasticizers possibly contained on the substrates to be printed

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.

To increase the external solidity, we recommend adding the UV additive adsorber to the ink in the percentage of 5-7%.

Drying process: 10 minutes at room temperature

Series

552-5

The ink of the EFOR 552-5 series dries physically, i.e. by evaporation of the solvents.

The drying time depends on:

- . From the quantity and type of thinner used
- . From the thickness of printed ink, from the layers
- . The type of oven and the speed of the carpet
- . From the type of material

. 8 minutes at room temperature (depends on local conditions)

. 20 sec at 45°C in an air circulation oven. (The test in our laboratory was carried out under the following conditions: 8 m/min, 10% MEK Rapid Thinner, air circulation oven).

Mechanical and chemical solidity:

Flexibility (Elasticity or Bending)	excellent
Mechanical stress (Impacts)	
Surface hardness (Abrasion)	(hardness 3H)
Water	good

Preventive tests are recommended. Laboratory tests were carried out with the film completely dried after 48 hours of evaporation by the solvents at room temperature.

Colours range: QUADRICROMIA

1080	1081	1082	1083						

Please refer to the Ink System ink color charts.

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:

Black 165

Black 165 S (non magnetic)

Transparent base 170

Yellow paste 1080 conc.

Magenta paste 1081 conc.

Blue paste 1082 conc.

Black paste 1083 conc.

The above mentioned pastes are to be added to the already formulated EFOR 552-5 ink, to increase its color strength.

The percentage of use is at the discretion of the customer (recommended doses 2-8%).

To avoid color surfacing or "flaming" during printing, it is advisable to shake the pastes well, preferably with a stirrer for at least 5 minutes with a good cutting force.

Auxiliaries and additives:

1000 DM medium thinner	20%	
1000 DL slow thinner	20%	
1013-C-DR TG fast thinner	20%	(not aggressive)
MEK fast thinner	20%	(aggressive - adhesion promoter)
UV 3 levelling agent	1,5%	3% max
Antistatic/s	1,5%	3% max
UV Adsorber	8%	
NPT matting powder	2%	6% max

Ink ready to use, if necessary the above additives can be used.

Ink removal:

DACS solvent

Lavaggio telai solvent

Series

552-5

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.