



FREE OP

Code 1702--

PRODUCT DESCRIPTION

A series of PVC-free extra-opaque Plastisol inks for textile printing with matt finish.

In compliance with the main Eco-friendly specifications.

APPLICATION FIELDS

Direct textile printing. For ready-to-wear or pre-cut articles.

APPLICATION PROCESS

Substrates	<ul style="list-style-type: none"> 100% cotton Synthetic and blended fibers Synthetic Substrates can be white or colored
Th/cm	<ul style="list-style-type: none"> Max. 77 Th/cm (195 Th/in)
Emulsion	<ul style="list-style-type: none"> See reference table
Squeegee	<ul style="list-style-type: none"> Square edge Harness 60-65 and 70-75 Shore
Curing	<ul style="list-style-type: none"> 150/160°C for 3/2 minutes
Auxiliaries	<ul style="list-style-type: none"> See TDS "FREE Series"
Cleaning	<ul style="list-style-type: none"> Screenclean ST
Storage	<ul style="list-style-type: none"> Away from direct sunlight At a temperature of 10 to 30°C
Package	<ul style="list-style-type: none"> See the product range table
Safety Data Sheet	<ul style="list-style-type: none"> Available upon request

GENERAL FEATURES

- Extra-opaque ready-to-use inks
- PVC-free
- Free from Phthalates*
- Excellent wet-on-wet printability
- Excellent stability in the screen
- Matt finish
- Very low tack
- Good general fastness
- Versatile and universal

*This product does not intentionally contain the Phthalates that are banned by the main specifications and norms. Lower than 0,1% di DEHP, DBP, BBP, DINP, DNOP, DIDP.

PREPARATION

Free has all the rheological features to be a ready-to-use ink.

Before use, homogenise the product and check the uniformity.

APPLICATION

Thanks to its high opacity, FREE OP doesn't need any previous white background printing.

For the best colour opacity and brightness, during printing, it is recommended to adjust the out of contact and the pressure of the squeegee, in order to obtain an ink film that can remain onto the surface of the substrate.

The opacity is influenced by the kind of drawing, the Th/cm screen number, the squeegee, the pressure and the printing speed.

The colour yield and shade may be different if the inks are printed on coloured fabrics.

CURING

Curing must take place at 150/160 °C for 3/2 minutes.

This is a thermoplastic ink: an appropriate curing is able to allow the complete ink fusion, therefore the achievement of the required final characteristics.



SPECIAL INSTRUCTIONS

- Always test the print characteristics, before starting production.
- Always check curing conditions. The addition of additives could change the ink curing time.
- Avoid too long intermediate drying times through IR Flash lamps. Actually, too long times may compromise the adhesion of the over prints. There are different kinds of IR Flash lamps and various substrates, onto which it is possible to print the inks; for this reason, it is not possible to give detailed information about the times and the powers of the lamps. So, it is recommended to do preliminary tests.
- It is recommended to keep the temperature of the intermediate drying flashes controlled during the production. An extreme overheating may cause a viscosity increase and compromise the ink printability and the final print quality.
- These inks do not resist dry cleaning, bleaching and ironing.
- Before printing of this ink, make sure that squeegees, countersqueegees, screens and cases have been cleaned well from possible rests of other ink series. The possible contamination would compromise its technical features and its compliance with the eco-friendly specifications.

EQUIPMENT

Indicated for using onto automatic, semi-automatic and manual machines.

PRODUCT RANGE

Code	FREE OP	Package
170232	Medium Yellow OP	5 kg
170233	Bright Red OP	5 kg
170235	Brillant Green OP	5 kg
170236	Dark Blue OP	5 kg

IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.

While we endeavour to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

WARNING

This technical data sheet does not replace either the Safety Data Sheet or the specific Conformity Declaration. These documents may be required to our SHEQ (Product safety office), at the following e-mail address: safety@eptainks.com.

The technical data sheet does not relieve the printer, who remains the only responsible of the respect of the regulations, the specifications and the related required certifications of the finished items.