

FREE 3D Transparent

Code 170260

PRODUCT DESCRIPTION

Pvc-free transparent Plastisol ink for high-thickness textile printing, with matt finish. In compliance with the main Eco-friendly specifications.

APPLICATION FIELDS

For ready-to-wear or pre-cut articles.

APPLICATION PROCESS

Substrates	100% cotton, synthetic and blended fibres
Th/cm	Max. 43 Th/cm (110 Th/Inch)
Emulsion	<i>Zero-in Speedcure</i>
Squeegee	Square edge Squeegee hardness 70-75 Shores
Curing	150-160°C for 3 minutes
Additives	If needed, Max. 5% <i>Free Thinner</i> Max. 15% <i>Free Quick Gel 557</i>
Cleaning	Screens and tools must be cleaned with <i>Screenclean ST</i> or <i>Solvente LQ</i> after printing
Storage	<ul style="list-style-type: none"> Away from sunlight At a temperature of 10 to 30°C
Package	5 kg
Shelf life	12 month
Safety Data Sheet	Available upon request

GENERAL FEATURES

- Ready-to-use ink
- PVC-free
- Free from Phthalates* and Heavy Metals
- Formaldehyde content: < 10 ppm
- Square edge 3D effect
- Excellent stability in the screen
- Matt finish
- Elastic and flexible ink
- Good general fastness



* 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 characteristics to be ready to use. The addition of *Free Thinner*, in the maximum quantities indicated, is not necessary except in exceptional cases. Does not compromise the pot-life of the ink.

We recommend the use of *Free Quick Gel 557* only if necessary in order to: increase drying speed with IR lamps; slightly increase the rubbing fastness.

Pot-life could be compromised over 48 hours. It must not be confused with an additive which reduces the polymerization temperature. To get colored relief prints, you can add a maximum 15% of *Free Colors* or *Free Colors OP*.

APPLICATION

In order to achieve an optimal 3D effect, it is recommended to use a 24 to 43 Th/cm screen having a maximal thickness of 400 microns. A higher thickness can be achieved through subsequent overprints subject to IR lamp drying.

CURING

The polymerization must be carried out at 150°C-160°C for 3 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, counter-squeegees, screens and cases have been cleaned well from possible rests of other ink series. The possible "pollution" would compromise its technical features and its compliance with the eco-friendly specifications.

EQUIPMENT

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

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.