



# FREE Flash White

Code 170213

## PRODUCT DESCRIPTION

Pvc-free Plastisol ink. White for textile printing of backgrounds onto dark substrates to be over printed.

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"> <li>100% cotton</li> <li>Synthetic and blended fibers</li> <li>Polyester</li> </ul> Substrates can be white or colored
Th/cm	<ul style="list-style-type: none"> <li>Max. 43 Th/cm (110 Th/in)</li> </ul>
Emulsion	<ul style="list-style-type: none"> <li>See reference table</li> </ul>
Squeegee	<ul style="list-style-type: none"> <li>Squeegee edge</li> <li>Hardness 60-65 and 70-75 Shore</li> </ul>
Curing	<ul style="list-style-type: none"> <li>150/160°C for 3/2 minutes</li> </ul>
Additives	<ul style="list-style-type: none"> <li>See TDS "<b>FREE Series</b>"</li> </ul>
Cleaning	<ul style="list-style-type: none"> <li><b>Screenclean ST</b></li> </ul>
Storage	<ul style="list-style-type: none"> <li>Away from direct sunlight</li> <li>At a temperature of 10 to 30°C</li> </ul>
Package	<ul style="list-style-type: none"> <li>5 kg</li> </ul>
Safety Data Sheet	<ul style="list-style-type: none"> <li>Available upon request</li> </ul>

## GENERAL FEATURES

- Ready-to-use ink
- PVC free
- Free from phthalates\* and heavy metals
- Formaldehyde content: < 10 ppm
- Good whiteness and opacity
- Excellent stability in the screen
- Very quick drying under IR lamp
- Excellent printability
- Very low tack
- 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

Ready to use ink.

*Free* has all the rheological characteristics to be ready to use.

Before to proceed the use, homogeneize the product and verify the uniformity.

## APPLICATION

For the best opacity and whiteness, during printing, it is recommended to adjust the out of contact and the pressure of the squeegee at their best, in order to obtain a homogeneous ink film.

Thanks to its quick drying under IR lamps, *Free Flash White* is used as a "background" for the subsequent over printing with the other colours of the series.

## CURING

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

This is a thermoplastic ink: an appropriate curing can 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, that 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, make sure that squeegee, counter squeegee, screens and canisters are very well cleaned from possible rests of other inks 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.

## 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](mailto: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.