



Textile Printing



# AQUA COLOURS

Code N° 16709-

## PRODUCT DESCRIPTION

Water-based inks for textile printing. Opaque series with matt finishing

## APPLICATION FIELDS

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



## APPLICATION PROCESS

<b>Substrates</b>	<ul style="list-style-type: none"> <li>• Cotton 100%</li> <li>• Cotton mixed with synthetic fibres</li> <li>• Elastic substrates</li> </ul> <p>The substrates may be white or coloured</p>
<b>Th/cm</b>	Max. 77 (195 Th/inch)
<b>Emulsion</b>	<ul style="list-style-type: none"> <li>• ZERO - IN ASTRA</li> <li>• ZERO - IN UNIVERSAL PLUS</li> </ul>
<b>Squeegee</b>	Square edge Squeegee hardness 60 - 65 Shores
<b>Curing</b>	150°C -160°C for 3 minutes
<b>Thinner</b>	In case, max 3% <b>AQUA THINNER</b>
<b>Thickening agent</b>	In case, max 1% – 2% <b>TEXILAC ADDENSANTE 346 NEW</b>
<b>Retarder</b>	In case, max 3% <b>AQUA THINNER</b>
<b>Fixing agent</b>	In case, 2% <b>ECOTEX FIX 50</b>
<b>Cleaning</b>	Water or <b>SCREENCLEAN ST</b>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Away from direct sunlight</li> <li>• At a temperature between 15-35°C</li> </ul>
<b>Package</b>	5 and 30 Kg
<b>Safety Data Sheet</b>	Available upon request

## GENERAL FEATURES

- High opacity
- Bright chromatic range
- High printability and stability in the screen
- Excellent elasticity
- Soft touch
- PVC and Phthalate free
- Formaldehyde-free
- Heavy metal-free
- APEO-free

## PREPARATION:

Ready-to-use ink.

The possible addition of **AQUA THINNER** is recommended during the hottest periods in the year.

The possible addition of **ECOTEX FIX 50** allows to achieve a better adhesion onto cotton mixture (70% cotton minimum) or 100% cotton fabrics, where washing fastness at 60°C is required. The ink, that has been hardened through **ECOTEX FIX 50** has a **pot-life of 8-12 hours**. After this time, the ink may be hardened again.

The addition of **AQUA ADDITIVE LOW TACK**, (maximum use percentage: **5%**), allows to reduce the surface tack of the printings, without compromising ink opacity and printability.

## APPLICATION:

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

## CURING:

Curing must take place at 150°C – 160°C for 3 minutes. Time and temperature must be optimized by the customer, depending on the kind of printing and substrate. In any case, they mustn't be lower than the above-recommended ones.



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**SPECIAL INSTRUCTIONS**

- Always test the printing characteristics, before starting production.
- Always check curing conditions. The addition of additives could require a longer curing time.
- These inks do not resist dry cleaning, bleaching and ironing.
- Squeegees, screens and cases, that are used with other ink series, must be cleaned well, in order to avoid any possible contamination and to grant ECO-LABELLING specifications.
- In order to avoid a quick drying, due to environmental conditions:
  - **Print and lay an adequate ink quantity.**
  - In case of long breaks, do not cover the drawing in the screen, and spray small quantities of water, before starting again.
  - Nebulize small quantities of water, in order to compensate the loss in humidity.
- After long printing runs, with a frequent use of IR hoods, the removal of the ink from some photoemulsions may result a little bit more difficult. In case, use SCREENCLEAN ST for an optimal cleaning of the screen.

**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@kian.it](mailto:safety@kian.it)

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.

**PRODUCT RANGE**

CODE	AQUA	PACKAGE
167249	BIANCO	5, 30 and 120 Kg
167250	TRASPARENTE	5, 30 and 120 Kg
167251	BASE	5 and 30 Kg
996295	BASE 54	1, 5 and 30 Kg
167265	FLASH WHITE	5, 30 and 120 Kg
167077	BINDER PG	1, 5 and 30 Kg
167075	SILVER	1, 5 and 30 Kg
167076	GOLD	1, 5 and 30 Kg
167078	PUFF	5 and 30 Kg
16709-	COLOURS	5 and 30 Kg
996288	SOFT TRANSPARENT	5 and 30 Kg
996287	OPAQUE WHITE	5 and 30 Kg
167382	THINNER	1 and 5 Kg
167383	ADDITIVE LOW TACK	1 Kg

**EQUIPMENT**

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