



TIFEL

TECHNOLOGICAL & INDUSTRIAL SOLUTIONS

TEXTILE INKS

■ AQUADIR

Water-based polyurethane ink for printing directly on textiles. It yields flexible and elastic prints. Used with a hardener, it can dry below 100 °C and limit the drawing of the printed fabrics.

EXX

marquer le monde *

Farben-Frikell



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SCREEN PRINTING

* making an impression

AQUADIR

Water-based polyurethane ink for printing directly on textiles. It yields flexible and elastic prints. Used with a hardener, it can dry below 100 °C and limit the drawing of the printed fabrics.

SPECIFICATIONS

- Finish: satin
- Odour: very slight
- Average density: 1.25
- Rheology: thixotropic ink
- Polymerisation:
 - 2 min at 160 °C in IR tunnel, value to be adjusted according to the material used (test the printing according to the wash programme recommended); to avoid drawing of the dyes or the fabric, it is possible to add low temperature hardeners that work under the following conditions:
 - with hardener 3540560 at 2%, 2 min at 90 °C in IR tunnel, value to be adjusted according to the material used (test the printing according to the wash programme recommended)
 - for drying at room temperature, hardener 3540561 must be mixed at up to 2 % (wait 8 to 15 days before washing to test the printing)
- Cleaning solvents: water
- Covering power: good
- Surface yield: 20 m²/l with 36 - 70 fabric
- Washing resistance: correctly fixed, resists domestic washing: 30 to 50 °C cycles on the reverse
- Ironing: 3X9394
- Retarding diluent: 12 months
- Shelf life: between 0 °C and 35 °C
- Storage conditions: between 0 °C and 35 °C
- Colours miscible together: yes

USE

The **AQUADIR** inks are used with coated screens with 19T, 200T, UST or Textil HT solutions. The fabric mesh is chosen according to the work to be carried out. To achieve maximum opacity, we recommend you to use size of mesh from 36 and 70 fibres/cm. For multiple printing, we recommend you to flash between each colour. The last layer has to be dried in an IR tunnel during 2 minutes at 160°C. In case of ink blending combined with low temperature hardener to avoid pigments migration, drying conditions will consequently be 100°C for 2 mn.

IMPLEMENTATION

Preparation is required before using this range of inks.

The pigmented concentrates are used with the thinner base on its own or with the thinner base and the blending white.

PREPARATION

- Red resist, ruby red and black, 90% thinner base, 10% pigmented concentrate.
- Lemon, thinner base 37,5%, blending white 60%, 2,5% pigmented concentrate.
- Other colours, 20% base, 60% white, 20% pigment concentrate.
- Gold paste 20 %, base 80 %.
- Silver paste 13 %, base 87 %.

STORAGE AND TOXICOLOGY

The **AQUADIR** inks comply with EN 71-3 standard.

TIFLEX would like to draw your attention to the following points:

Before starting production, you are recommended to check ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

Washing resistance may be reduced with some dyes rich in base colours or white (transparent or pastel colours) or a too important incorporation of pigment concentrates. The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours.



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PIGMENT CONCENTRATES

Ref.	Packaging		Ref.	Packaging
				
LEMON			VIOLET	
3522002	1 l		3522016	1 l
				
YELLOW			PRIMARY BLUE	
3522004	1 l		3522020	1 l
				
ORANGE			MINT GREEN	
3522006	1 l		3522035	1 l
				
CHERRY RED			BLACK	
3522008	1 l		3522044	1 l
				
RUBIS RED				
3522012	1 l			
				
FUSCHIA				
3522015	1 l			

Non contractual colours and pictures

On simple request, we can propose you a color panel card displaying accurate shades.

STANDARD COLOURS

Ref.	Packaging
THINNER WHITE	
3544000	5 l
COVERING WHITE	
3544087	5 l

BASE

Ref.	Packaging
THINNER BASE	
3544066	5 l

METALLIC

Ref.	Packaging
SYLVER PASTE	
3542046	1 kg
GOLD PASTE	
3562096	1 kg

ADDITIVES

Ref.	Packaging
ROOM TEMPERATURE HARDENER	
3540561	100 g
LOW TEMPERATURE HARDENER	
3540560	100 g